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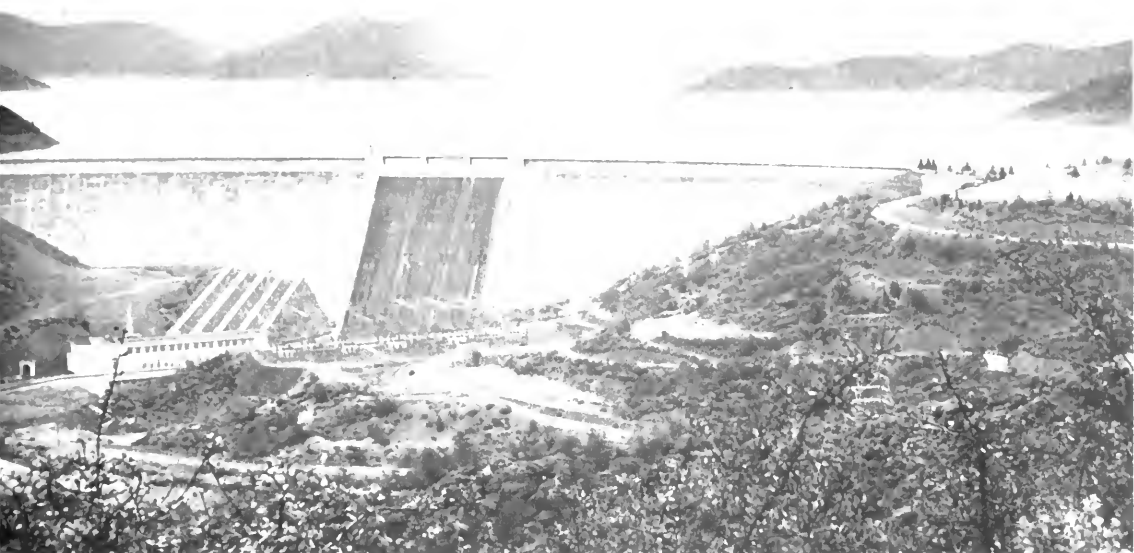
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State of California—Resources Agency
Department of Water Resources
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ON THE COVER Located on the Sacramento River about 12 miles north of Redding, Shasta Dam provides irrigation water and electric power. Lake Shasta, with a capacity of 4,500,000 acre-feet, extends 35 miles from the dam up the Sacramento, Pit, and McCloud rivers.

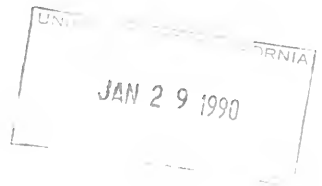
Department of
Water Resources

Bulletin 130-85

HYDROLOGIC DATA 1985

Volume II:
Northeastern California

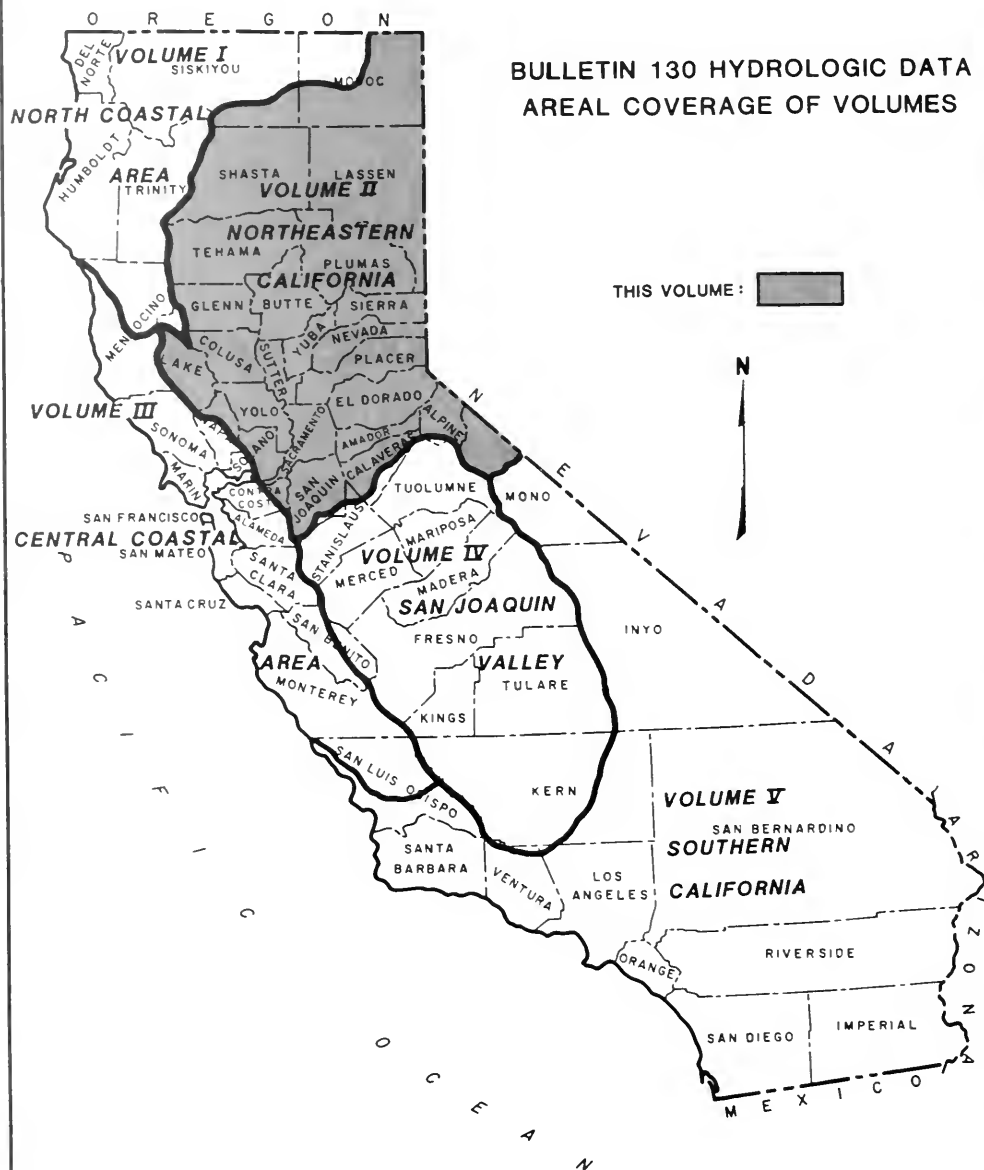
May 1988



Gordon K. Van Vleck
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David N. Kennedy
Director
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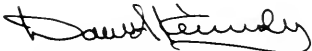


FOREWORD

Department of Water Resources' Bulletin 130 series, which presents hydrologic data for California, was published annually from 1963 to 1975. The series was discontinued with the advent of the storage and retrieval of hydrologic data by electronic data processing methods. However, continued interest in the series prompts resumption of publication.

The first in the resumed series is Bulletin 130-85. It contains hydrologic data for the 1985 water year (October 1, 1984 through September 30, 1985). The Bulletin is published in five volumes, each of which reports on one of the five areas of the State delineated on the facing map. This volume covers Northeastern California.

The data collection program of the Department of Water Resources supplements similar activities by other agencies to obtain the information required for effective water resources planning, design and operation of water facilities, and for control and management of the State's water resources.

A handwritten signature in black ink, appearing to read "David Kennedy", with a stylized, flowing script.

David N. Kennedy, Director
Department of Water Resources

CONTENTS

	Page
BULLETIN 130 HYDROLOGIC DATA AREAL COVERAGE OF VOLUMES	ii
FOREWORD	iii
CALIFORNIA WATER COMMISSION	vii
ORGANIZATION, DEPARTMENT OF WATER RESOURCES	viii
ACKNOWLEDGMENTS	x
INTRODUCTION	1
Station Location and Identification	1
Areal Designation Code	2
Agency Code	2
ADDITIONAL INFORMATION	inside back cover

APPENDIXES

APPENDIX A - CLIMATOLOGICAL DATA	9
Table A-1 Monthly Precipitation,	19
Table A-2 Storage Gage Precipitation Data	24
APPENDIX B - SURFACE WATER MEASUREMENT	27
Index to Daily Mean Discharge Table	30
Table B-1 Daily Mean Discharge	38
Index to Daily Mean Stage Table	100
Table B-2 Daily Mean Stage	101
APPENDIX C - SURFACE WATER QUALITY	117
Sampling Station Index, Northeastern California	122
Table C-1 Mineral Analyses of Surface Water	133
Table C-2 Minor Element Analyses of Surface Water	172
Table C-3 Miscellaneous Analyses of Surface Water	178
Table C-4 Nutrient Analyses of Surface Water	184
Table C-5 Pesticide Analyses of Surface Water	196
Table C-6 Supplemental Minor Element Analyses of Surface Water	200
APPENDIX D - GROUND WATER MEASUREMENTS	203
Appendix D Cross Reference: Ground Water Basin—Areal Code	208
Table D Ground Water Levels at Wells	210
APPENDIX E - GROUND WATER QUALITY	255
Appendix E Cross Reference: Ground Water Basin—Areal Code	258
Table E-1 Mineral Analyses of Ground Water	260
Table E-2 Minor Element Analyses of Ground Water	302
Table E-3 Miscellaneous Analyses of Ground Water	310
Table E-4 Nutrient Analyses of Ground Water	312

CONTENTS (continued)

Page

FIGURES

1. Hydrologic Basins of California	3
2. Areal Codes and Boundaries	4
3. Location of Climatological Stations	12
4. Location of Surface Water Measurement Stations	32
5. Location of Surface Water Quality Stations	126
6. Township and Range System of California	204
7. Location of Ground Water Basins—Measurement	209
8. Location of Ground Water Basins—Quality	259

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Department of Water Resources

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Glenn-Colusa Irrigation District
Lake County
McCloud Community Services District
M and T Incorporated
National Park Service
National Weather Service

Orland Unit Water Users Association
Pacific Gas and Electric Company
Pacific Power
Paradise Fire Department
Police Department, City of Williams
Reclamation District 1500
Reclamation District 1660
Sacramento County
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South Sutter Water District
Sutter County
U. S. Army Corps of Engineers
U. S. Bureau of Reclamation
U. S. Fish and Wildlife Service
U. S. Forest Service
U. S. Soil Conservation Service
Western Water District
Yolo County
Yuba County

INTRODUCTION

Bulletin 130-85 presents data on the quantity and quality of California's water resources for the water year October 1, 1984 through September 30, 1985. These data were collected by the Department of Water Resources and other organizations cooperating with the Department. The data are published in five volumes (for areal coverage of volumes see page ii). This volume encompasses Northeastern California. Each volume contains data presented in five appendixes as follows:

Appendix	Subject
A	Precipitation Measurements
B	Surface Water Measurements
C	Surface Water Quality
D	Ground Water Measurements
E	Ground Water Quality

Inquiries regarding the data in this publication should be directed to the offices of the Department of Water Resources listed inside the back cover. The Department's files also contain some data currently not being published, which are also available from these offices.

Additional information about the availability of hydrologic data for California will be found in Department of Water Resources Bulletin 230 series "Index to Sources of Hydrologic Data." This reference series presents an inventory of historic hydrologic data on file with the Department. The most recent issue is Bulletin 230-81. A new edition is in preparation.

Station Location and Identification

The locations of precipitation, surface water measurement, and surface water quality data stations are shown on figures included with the respective appendix. Because there are so many individual wells, plotting these on a map in this volume is impractical. Instead, figures are presented in the respective appendix which delineate the areas for which data are listed.

The principal identifiers for locating hydrologic data stations are (1) station name, (2) station number, (3) latitude and longitude, (4) township, range and section (T,R and S) and (5) county. All are used in this publication, but vary with the type of data and common usage. For example, in ground water the township, range and section serve as the station name and number.

A sixth identifier, an areal one, is employed in this publication. Called the "Areal Designation Code," it is the signature for the Department's Areal Designation System, which was developed to relate all water resources data to areal location. The Areal Designation System and Code are described in the following section.

Detailed explanations of the station names and station numbers used for each type of data appear with the appendix in which the data appear.

Latitude is the angular measurement from the equator, north or south, to a point of interest on the earth's surface. Longitude is the angular measurement from the prime meridian (zero point) at

Greenwich, England, east or west, to a point of interest on the earth's surface. Latitude and longitude are given in degrees, minutes and seconds. A difference of one second of latitude represents about 100 feet on the ground. In California, a difference of one second of longitude represents about 85 feet on the ground.

Areal Designation Code

The areal designation code (called simply the "areal code") is an alphanumeric which designates a specific hydrologic area in the State.

Areal designation defines hydrologic boundaries throughout California. Under this system, the State is divided into four geographic levels based on topography, hydrology, geology and occasionally, institutional considerations. These are designated, in decreasing size, hydrologic basin (HB), hydrologic unit (HU), hydrologic area (HA) and hydrologic subarea (HSA). The first level, the hydrologic basin, is the land area defined by the highest surrounding ridges such that each separate land area is easily identified as independent of the others. There are 12 hydrologic basins in California and each is identified by a letter (see Figure 1). Each of the hydrologic basins is divided into hydrologic units which encompass a major watershed, two or more small contiguous watersheds having similar characteristics, or a closed drainage area. The third level of subdivision is the hydrologic area and the fourth and smallest breakdown is the hydrologic subarea. The latter usually is a single ground water basin, a definable portion of a larger ground water basin, a tributary area of a stream system, or a definable portion of a large stream tributary.

The code used to identify each subdivision consists of five characters; a letter for the hydrologic basin; two numerics for the hydrologic unit; a letter for the hydrologic area; and a single numeric for the hydrologic subarea; for example, A03.A1 designates the Lake Berryessa Subarea in this volume.

Because several stations may be located in a given hydrologic subarea, the areal code facilitates locating and comparing nearby stations, be they precipitation, streamflow, water quality or ground water stations. The areal code is used as an identifier for all stations in this report. The Water Data Information System (WDIS), a computerized data system of the Department of Water Resources, can retrieve all data types by areal code.

Areal codes and boundaries for this volume appear on Figure 2. A map showing all areal codes and boundaries in California as well as a list of all 1,309 subdivisions and their names is available on request.

Agency Code

Reference is made in various tables in this publication to code numbers used to identify agencies collecting data, operating stations, or performing laboratory analysis (Lab). The agencies or laboratories may be identified by matching the tabulated code number with one of the code numbers listed at the beginning of the respective appendix. A complete cross index of agencies and code numbers is available on request.

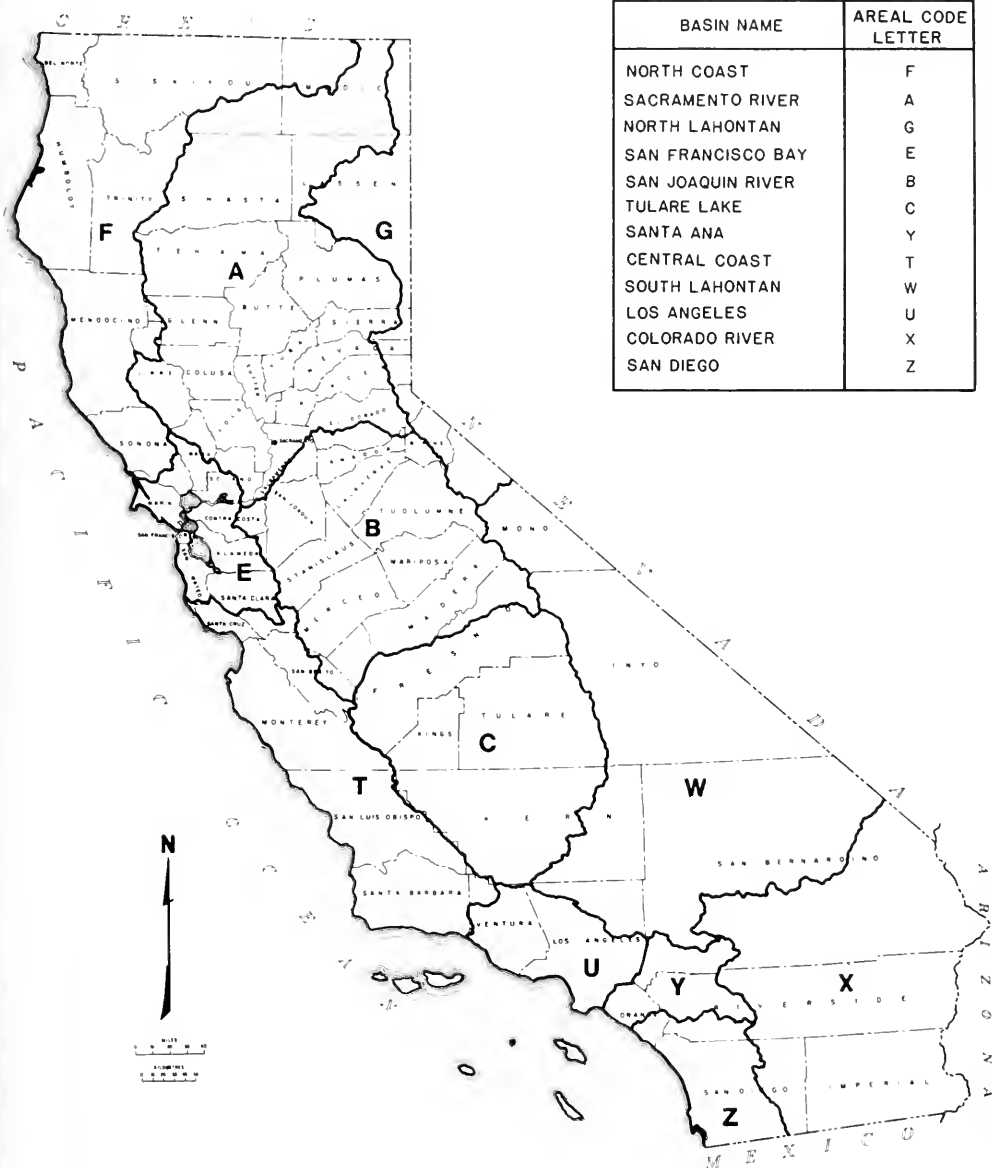


Figure 1. HYDROLOGIC BASINS OF CALIFORNIA

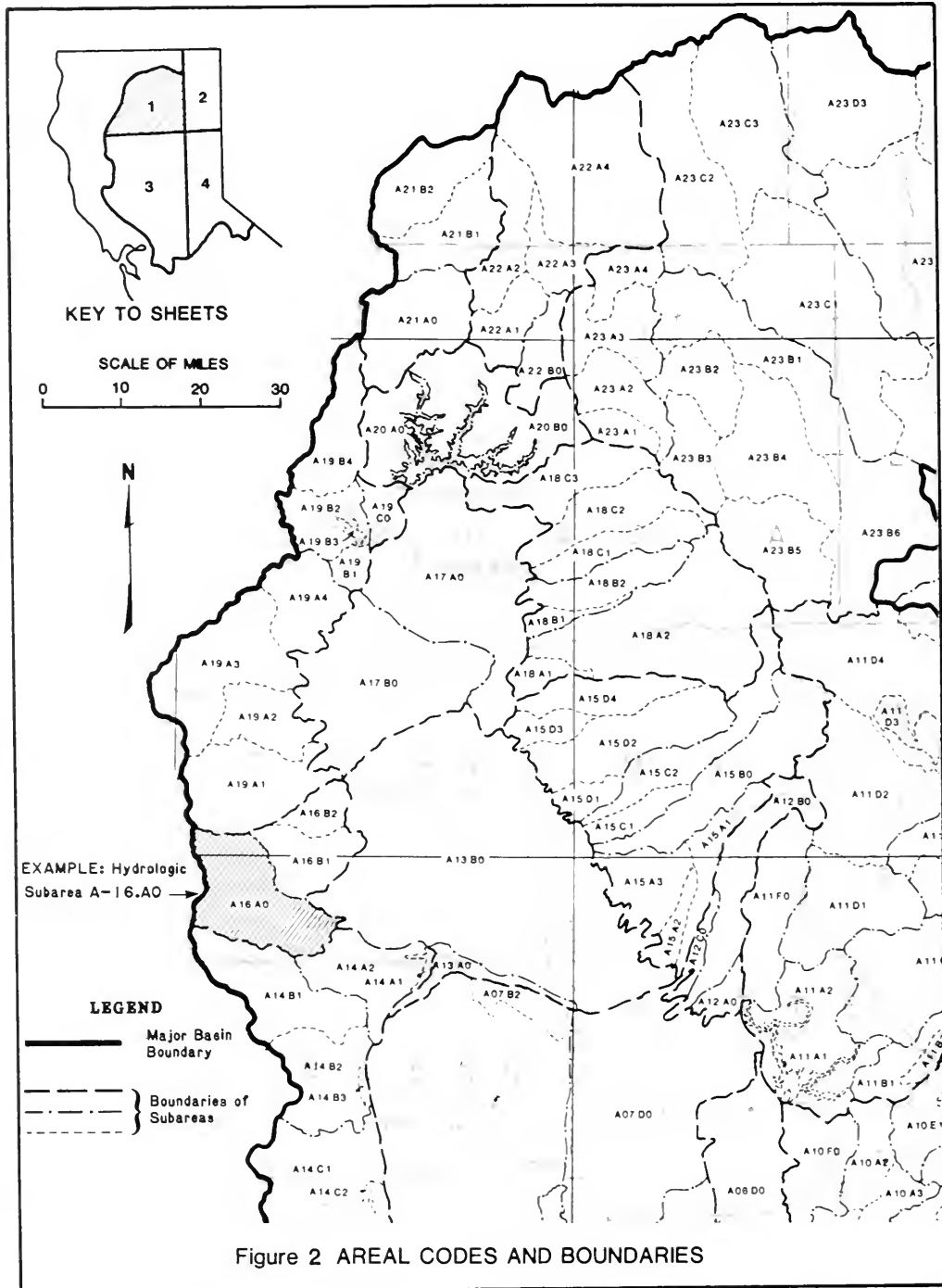


Figure 2 AREAL CODES AND BOUNDARIES

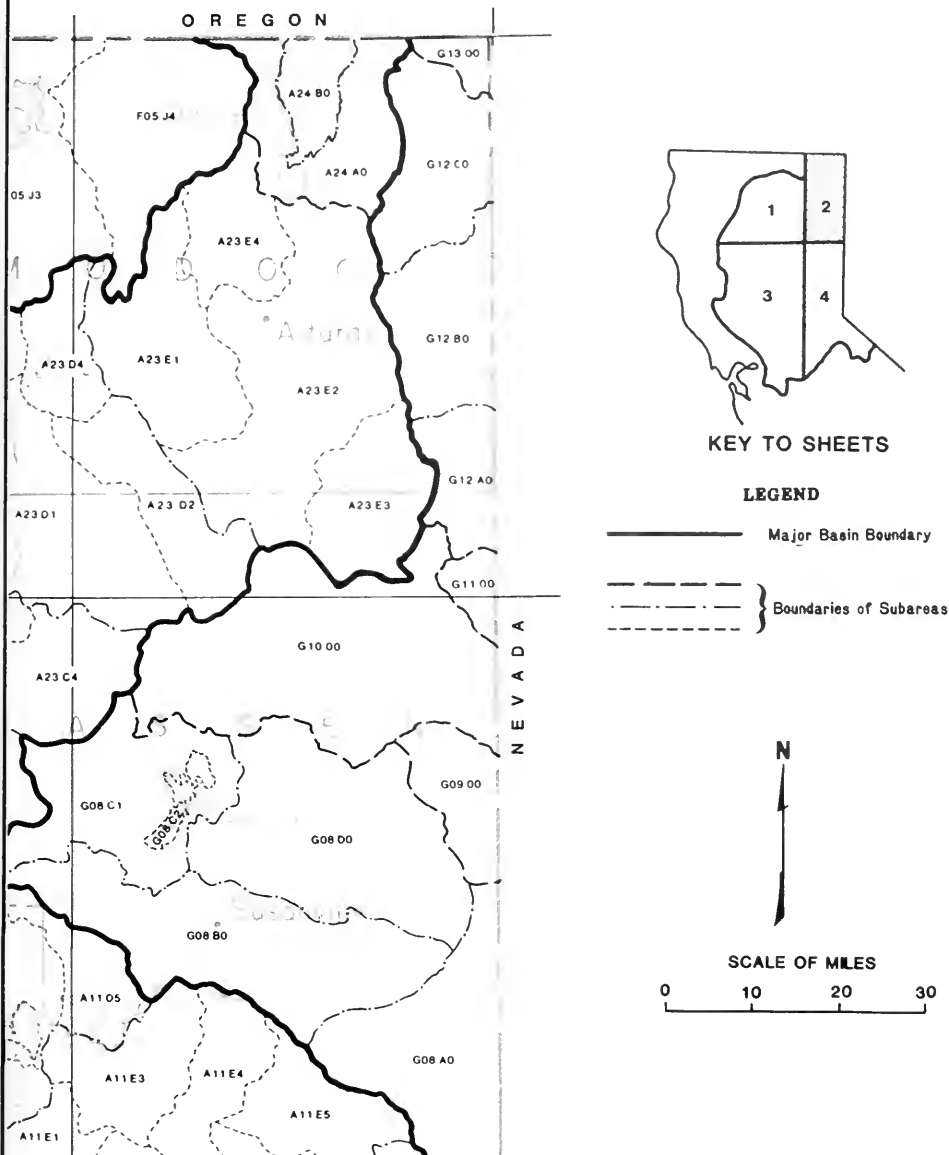
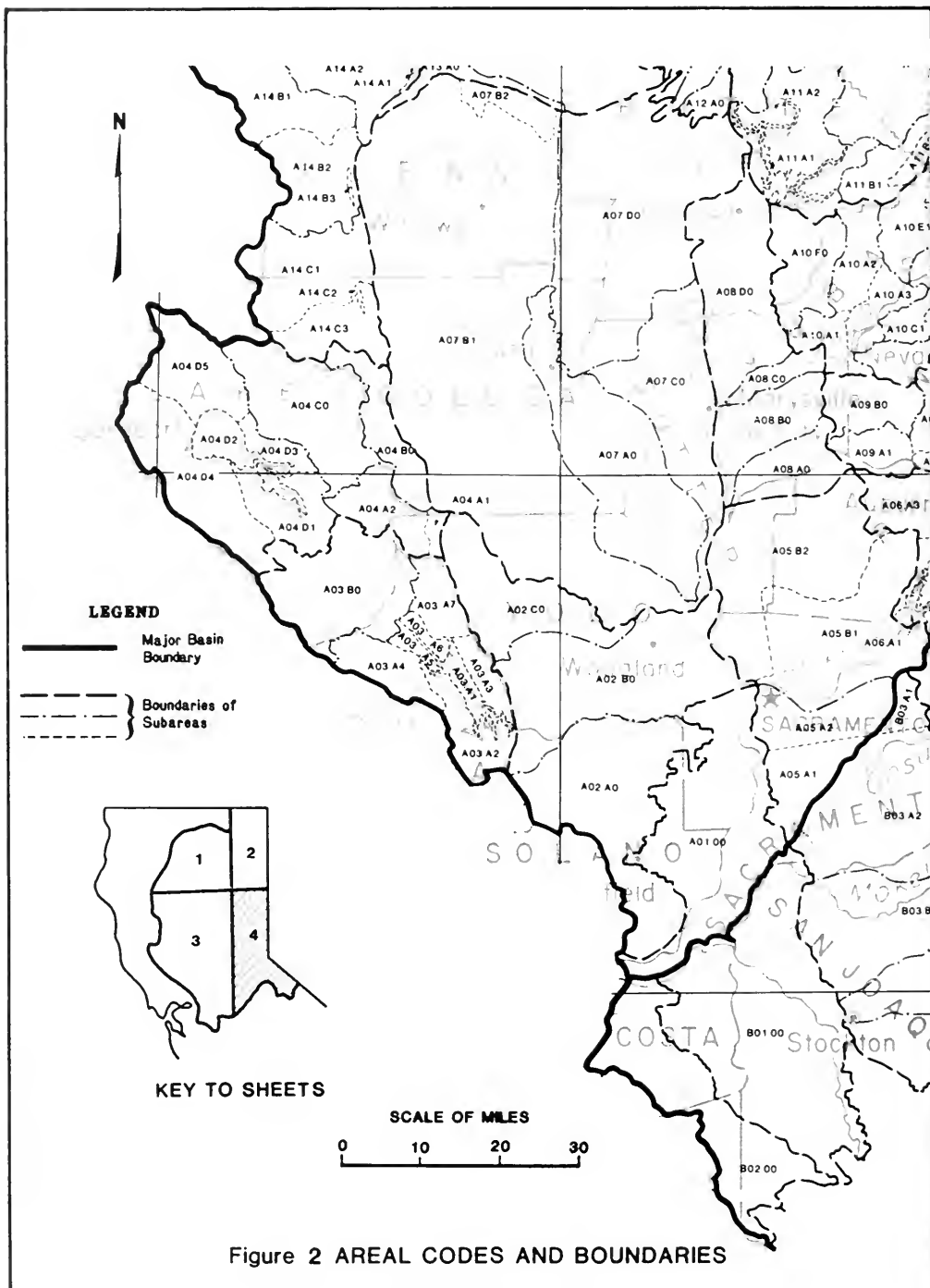
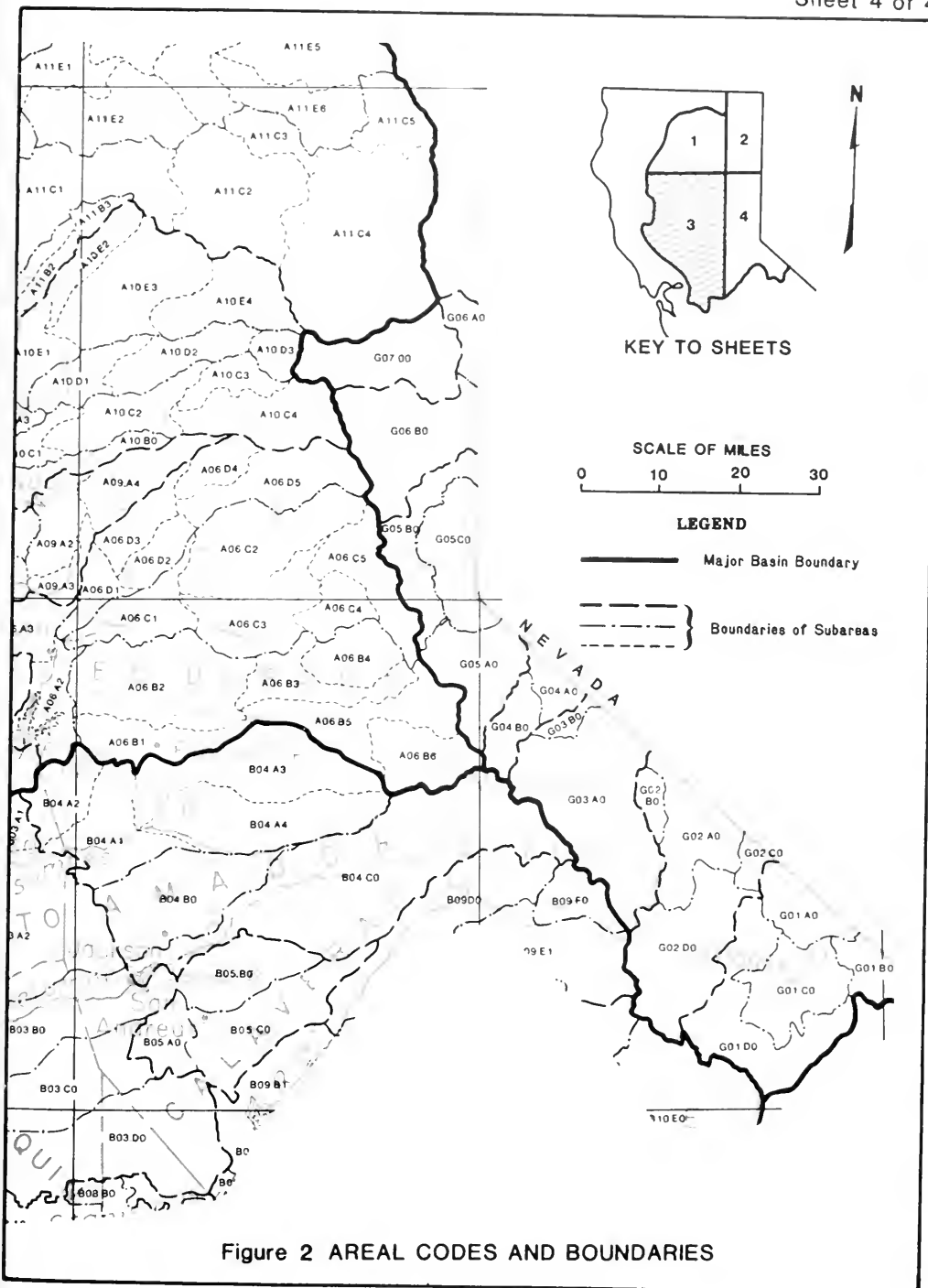


Figure 2 AREAL CODES AND BOUNDARIES





APPENDIX A

CLIMATOLOGICAL DATA

APPENDIX A

CLIMATOLOGICAL DATA

Appendix A presents precipitation data for certain climate stations in Northeastern California for the water year October 1, 1984 through September 30, 1985. Locations of the stations are shown on Figure 3, following.

The first character of the nine character climatological station number indicates the major basin in which the station is located. This character is one of the areal code letters shown on Figure 1. The next two characters designate a hydrologic unit in the major basin. The fourth through the ninth characters denote the sequence of the stations under an alphanumeric system developed by the National Weather Service. (The fourth through seventh characters are the same as the four-digit station numbers used by the National Weather Service.)

Climatological stations are often named after the nearest post office and the distance and direction to the station. Distance is in miles, and the direction is represented in one of 16 compass points. For example, Alturas 7 ESE denotes a station located 7 miles east southeast of the post office at Alturas. The responsibility for selecting the station name generally rests with the agency or individual who establishes the station.

The space for station names is restricted to a combination of 25 letters and/or numerals; therefore, some abbreviations are necessary. Pertinent abbreviations are:

ADR	- Analog Digital Recorder (Automatic recording device)
AP	- Airport
COPCO	- California-Oregon Power Co.
FFS	- Forestry Fire Station
RAD	- Radiation
SOD	- Sierra Ordnance Depot
SHP	- State Historical Park
TP	- Treatment Plant
USCE	- U. S. Corps of Engineers
WB	- Weather Bureau
WBO	- Weather Bureau Office

The Department gives latitude and longitude to the nearest second when the value is known, but the National Weather Service lists stations by degree and minute only. A zero value or a blank space for "seconds" in the latitude and longitude columns means that these values have been obtained from the National Weather Service, and the location has not been verified in the field.

Elevations are given in feet from USGS mean sea level datum, and are usually obtained by interpolation between contours of USGS topographic maps.

Precipitation values are shown to the nearest one-hundredth of an inch (0.01"). (Where digital recording rain gages that only record to the nearest tenth of an inch are used, a zero is shown in the second decimal place.)

The following notations are used to qualify the values:

- No record or incomplete record
- T Trace, an amount too small to measure

42°

122°

42

LEGEND

TYPE of DATA

- ● ○ PRECIPITATION ONLY
 ○ PRECIPITATION, STORAGE
 ○ ◆ ○ PRECIPITATION and TEMPERATURE
 ○ ◆ ○ PRECIPITATION, TEMPERATURE and EVAPORATION

TYPE of GAGE

- NON-RECORDING
 ● RECORDING
 ○ BOTH TYPES

MAJOR BASIN and TRIBUTARY AREA

MAJOR BASIN BOUNDARY

BOUNDARY of TRIBUTARY AREA



KEY TO SHEETS



Scale in Miles

N

41°

123°

See Sheet 2

122°

Medicine Lake

Mt Shasta Slope

Mt Shasta WBO City

Dunsmuir Treatment Plant O

McCloud

Castle Crags S.P.

Stouts Meadow

Gibson HMS

McArthur-Burney Falls S.P.

Pit River O.P.H.5

Pit River P.H.1

Hat Creek P.H.1

Burney

Buckhorn

Round Mtn. PG&E

Shasta Dam

Summit City

Central Valley-Burns

Kilarc P.H.

Whiskeytown Res.

Redding F.S.No.4

Shasta S.P.

Igo 2W

Shingletown 2NW

Manzanita Lake

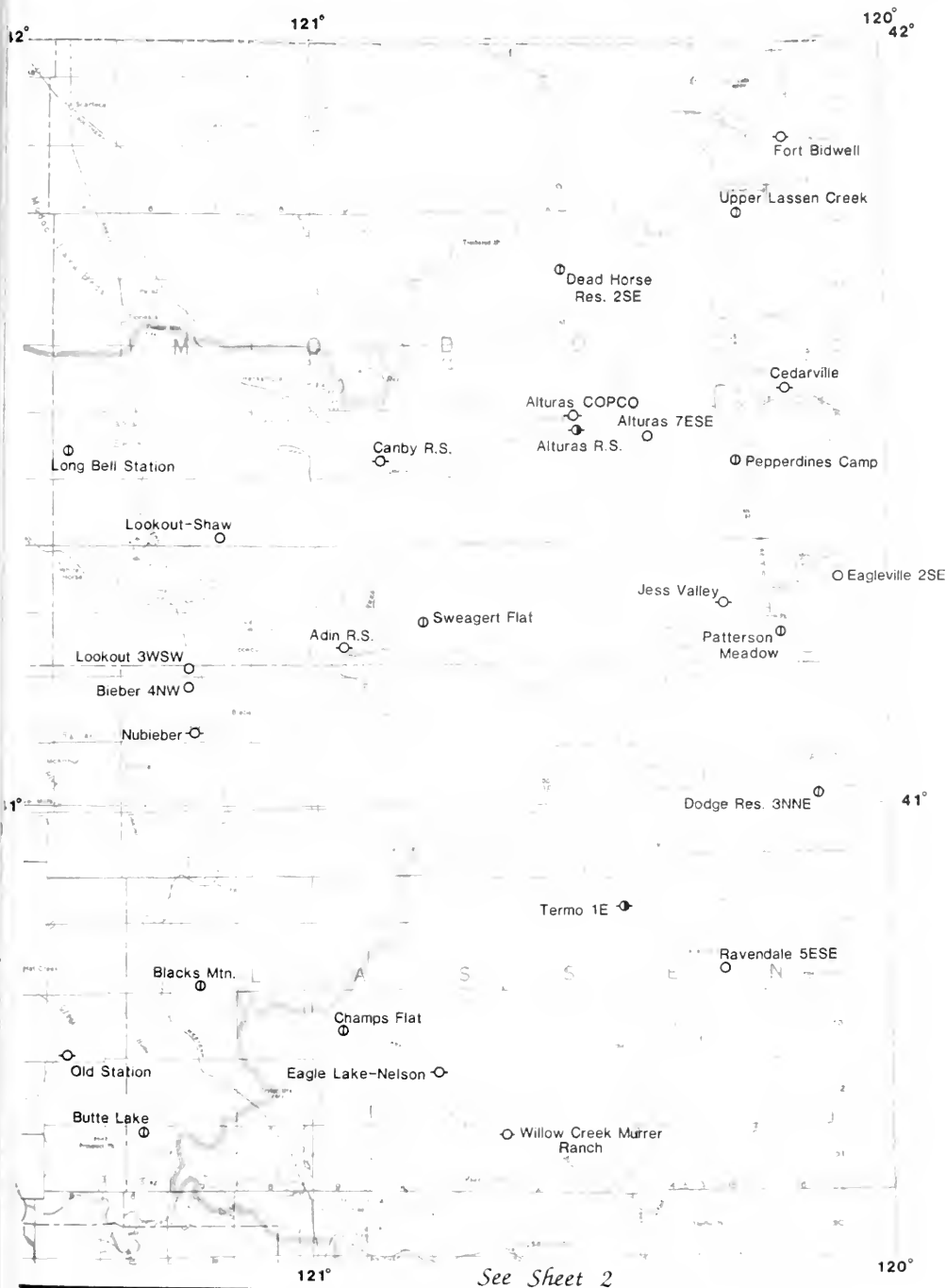


Figure 3. LOCATION OF CLIMATOLOGICAL STATIONS

123°

122°

See Sheet 1

Anderson 9WNW

Anderson STP

Darrah Fish

Volta P.H.

Anderson
F.S.No.2Coleman Fish
Hatchery

Mineral

Harrison Gulch R.S.

Jelly

Hogback Rd

McCarthy
Point

Saddle Camp R.S.

Red Bluff W.B.A.P.

DeWitt Peak
2WSWTwenty Mile
Hollow

Los Molinos 6N

T E H A M A

40°

Ball Mtn.Lookout

Corning Houghton
RanchWoodson
Bridge S.P.Cohasset
1NNE

Paskenta R.S.

Log Spring

Black Butte
DamGlenn Colusa
Headgate

Nord F.S.

De Sabla

Paradise
F.S.No.3

Chico 34NE

Paradise

M & T Ranch

Diamondville

Chico Univ. Farm

Oroville 11NNW

Durham F.S.

Cherokee

Orland

Phelan Parrott
Ranch

Alder Springs

Stone Valley

Stony Gorge Res.

Fruto 2

Orland-French Ranch

Clarks Valley

Mudd

Willows 6W

Noel
SpringNelson Western
CampThermalito
Atterbay

Richvale

Oroville

Palermo

Stonyford R.S.

East Park
Res.

Trough Springs

Stonyford Amigeo

Gridley FFS

Gridley Butte
WD

Honcut

Live Oak 2SE

Live Oak
6SSW

Upper Lake 7W

Maxwell

Colusa 2SSW

Williams

Marysville

Yuba City

Tisdale Bypass

Tisdale Weir

Lakeport 3W

Kelseyville 2N

Finley 1SSE

Clearlake 4SE

See Sheet 3

122°

123°

KEY TO SHEETS

8 0 8 16

Scale in Miles

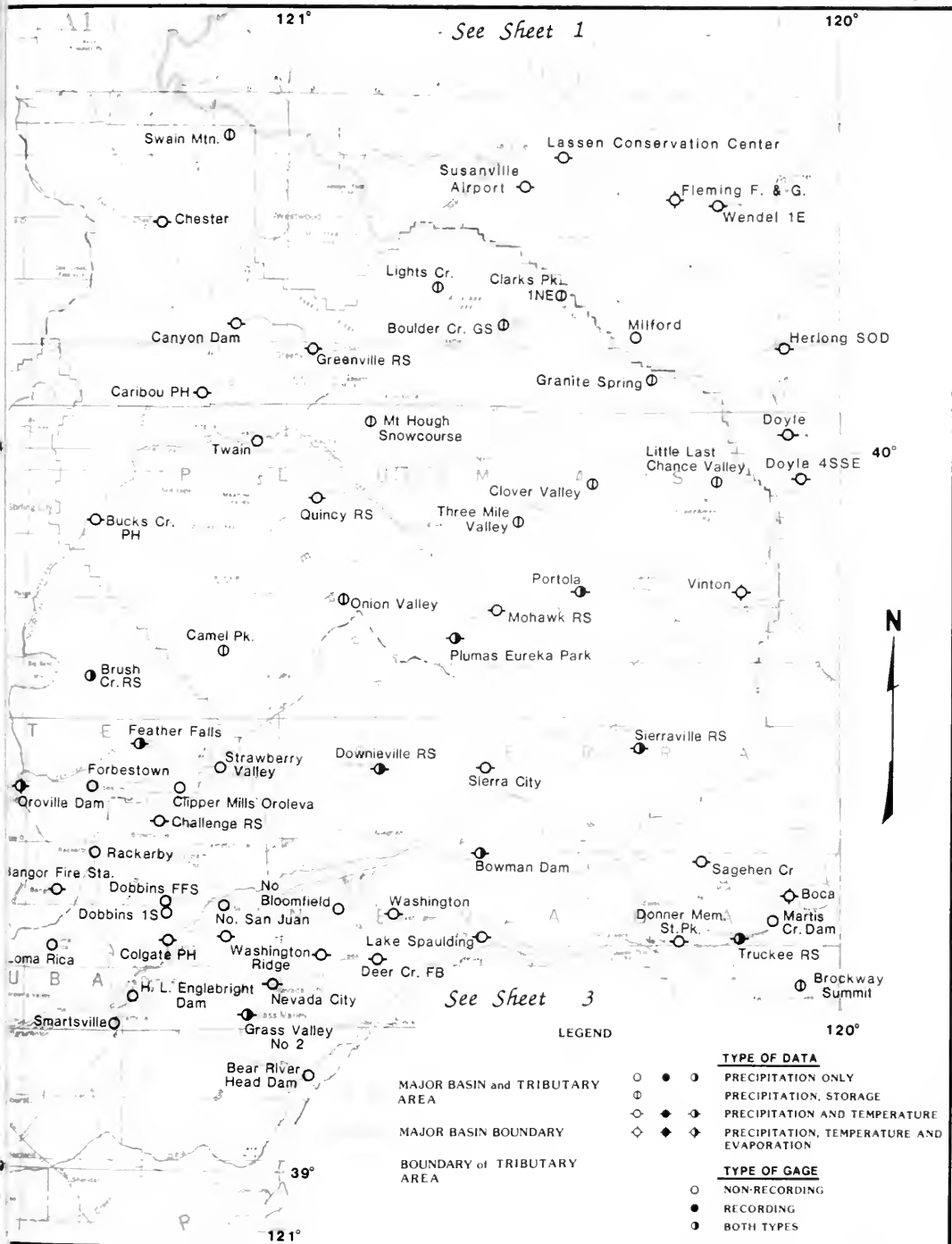
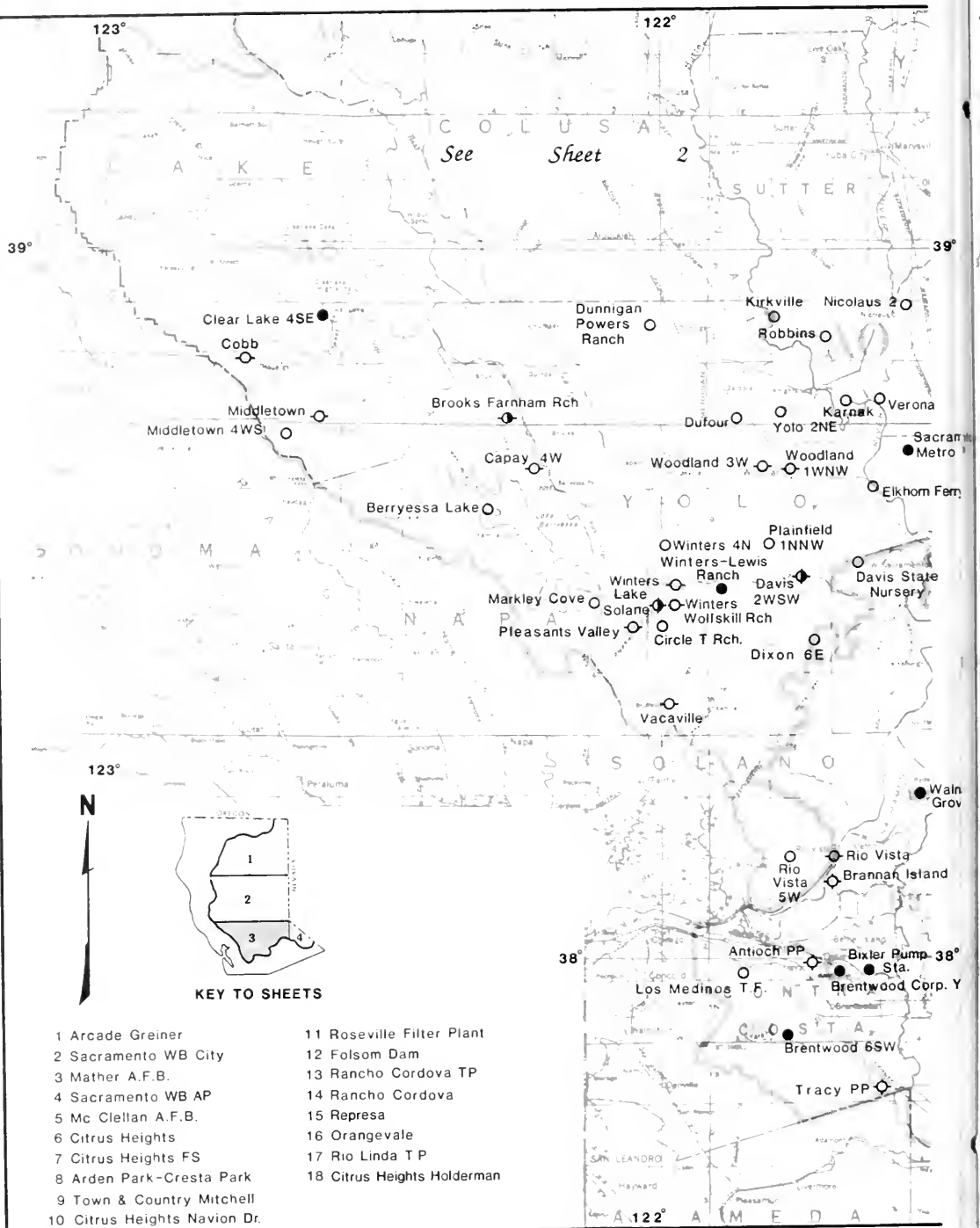


Figure 3. LOCATION OF CLIMATOLOGICAL STATIONS



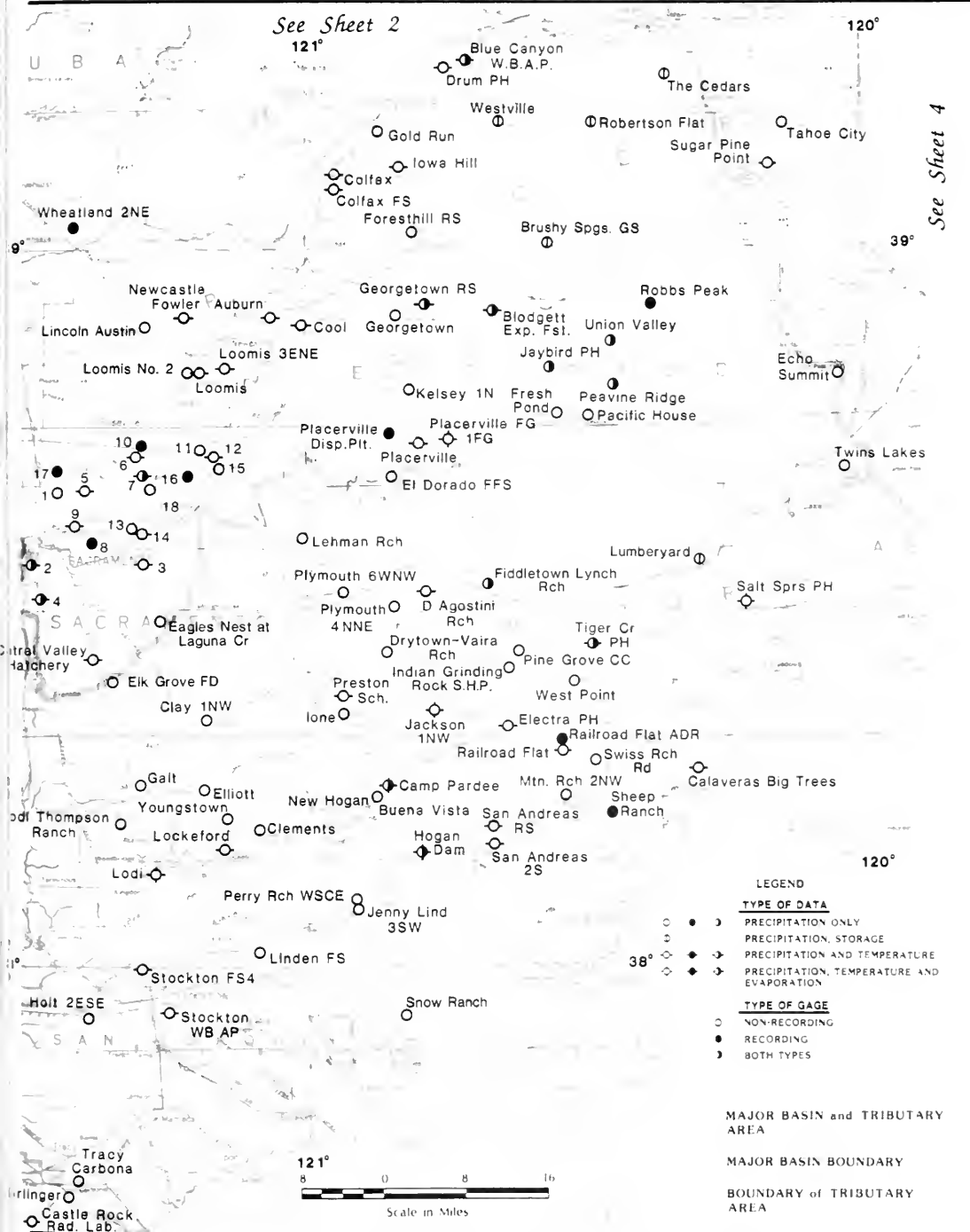


Figure 3. LOCATION OF CLIMATOLOGICAL STATIONS

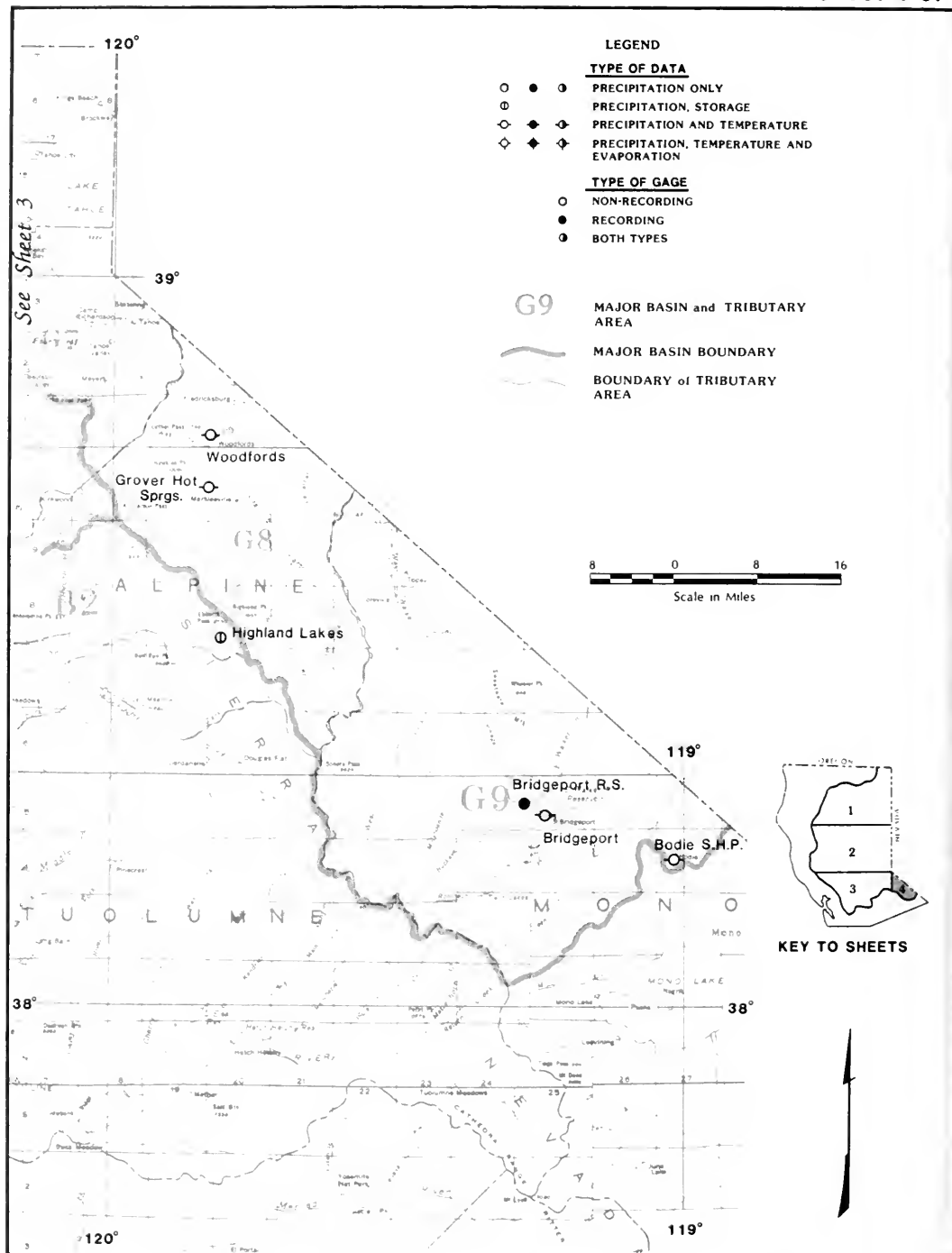


Figure 3. LOCATION OF CLIMATOLOGICAL STATIONS

TABLE A-1
MONTHLY PRECIPITATION
NORTHEASTERN CALIFORNIA
Volume II
Water Year 1985

AREAL CODE	STATION NUMBER	LAT	LONG	ELEV	STATION NAME	TOTAL	PRECIPITATION IN INCHES											
							1985											
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
A2101	A10002900	41 12	120 43	4,193	Adin Ranger Station	13.16	1.87	3.79	.58	.44	.82	1.19	.20	1.11	.03	.39	.05	2.85
A2101	A30090900	39 39	120 43	4,550	Alder Springs	29.50	3.20	11.40	1.90	.50	3.30	4.90	1.00	.55	.30	.00	.00	.00
A2302	A10015600	41 30	120 31	4,400	Alturas COPCO	11.28	1.19	3.50	.52	.60	.50	.52	.35	1.03	.19	.11	.12	2.05
A2302	A10015900	41 30	120 24	4,400	Alturas F. ESE	13.15	2.24	2.89	.76	.60	.89	1.05	.44	.85	.21	.05	.28	2.82
A2302	A10016100	41 29	120 32	4,355	Alturas Ranger Station	10.70	1.45	2.42	.46	.52	.87	.78	.39	.96	.30	.05	.08	2.12
A1740	A00020040	40 26	122 17	430	Anderson Fire Station #2	22.82	3.85	4.57	2.35	1.09	1.39	1.19	.22	.13	.22	.00	.19	2.02
A1740	A00020110	40 27	122 27	850	Anderson S. NW	31.41	2.70	11.48	2.18	1.20	1.97	4.07	.54	1.45	2.17	.01	.26	2.83
A1740	A00020130	40 28	122 16	400	Anderson Sewage TP	26.53	3.49	9.40	2.46	1.10	1.83	3.24	.16	.00	.00	.53	.04	.37
B0200	B80023200	37 59	121 43	600	Antioch Pump Plant	10.20	1.75	3.52	.85	.44	.44	.90	.22	T	.22	.00	.00	.16
A0010	A00024934	38 38	123 23	70	Arcade Greiner	17.46	2.00	6.31	1.97	.91	1.98	2.80	.19	.00	.18	T	.04	1.08
A0501	A00025534	38 35	121 22	67	Arden Park Cresta Park	15.39	1.97	5.49	1.81	.69	1.68	2.75	.20	.00	.20	.00	.00	.60
A0503	A70038300	38 53	121 04	1,292	Auburn	26.89	3.18	9.02	2.35	.80	3.14	5.83	.13	.00	.29	.02	.19	1.94
A10F0	A60048100	39 23	121 24	750	Banger Fire Station	23.42	3.44	7.53	2.47	1.36	2.90	4.94	.12	T	.05	.15	1.67	
A0504	A60056800	39 08	120 57	1,950	Bear River Head Dam	42.42	3.96	15.49	2.44	2.31	5.37	8.96	.55	.00	.47	.00	.19	2.68
A0302	A90070500	38 33	122 13	460	Berryessa Lake	22.13	1.62	7.12	2.92	1.01	2.44	5.94	.07	.00	.05	.00	.00	.91
A2301	A10073108	41 09	121 11	4,190	Bieber S. NW	17.83	2.14	4.74	.62	.68	2.00	1.78	.00	.63	.00	.30	.05	2.99
B0100	B90093250	37 56	121 37	14	Biller Pump Station	10.58	1.52	3.91	1.20	.56	.84	2.06	.19	.00	.30	.00	.00	.00
A1300	A30084011	39 48	122 19	425	Black Butte Dam	16.52	1.42	6.59	2.11	.74	.42	3.41	.61	.00	.00	.02	.11	1.09
A06C3	A70088300	38 54	120 40	4,414	Blodgett Exp Forest	47.49	6.35	16.03	3.40	1.70	5.72	10.14	1.05	.00	.00	.00	.50	2.40
A06D4	A70099700	38 16	120 42	5,280	Blue Canyon WB Airport	49.36	5.44	17.08	3.58	2.05	6.10	10.05	1.22	.06	.46	.05	.34	2.54
G06B0	G70093100	39 23	120 05	5,575	Boca	19.90	1.68	5.93	.80	.51	2.15	3.88	.15	.00	.48	2.26	.30	1.76
B0100	G00094300	38 13	119 01	6,370	Bodie S.H.P.	10.55	.57	2.69	.84	.66	.69	2.41	.22	T	.00	1.38	T	
A10C3	A60101800	39 25	120 39	5,347	Bowman Dam	51.78	2.90	19.00	3.02	1.90	6.42	10.45	.99	.20	.10	.20	.55	3.50
B0100	B90105950	37 55	121 31	95	Brentwood Corporation Yd	11.61	1.54	4.06	1.32	.56	.96	2.51	.22	.00	.32	.00	.00	.12
B0100	B90104300	38 06	121 41	33	Brannan Island	14.49	1.72	4.48	1.52	1.18	1.58	3.05	.44	.01	.28	.10	.00	.13
B0100	B90106000	37 53	121 46	325	Brentwood CSW	12.24	1.32	3.84	1.08	1.19	2.06	2.14	.35	.00	.25	.00	.00	.00
G02C0	G00107203	38 15	119 13	6,470	Bridgeport	10.04	.15	1.04	.61	.51	1.10	2.11	.00	.00	.45	.17	.00	2.30
G01C0	G00107600	38 16	119 17	6,560	Bridgeport Ranger Station	14.78	.36	1.93	.43	.55	.50	1.15	.10	.00	.30	.50	.00	2.20
A02C0	A00111200	38 45	122 09	294	Brooks Farnham Ranch	20.32	1.30	6.37	1.95	.38	2.58	2.81	.00	.00	.47	1.56	.00	2.50
A11C1	A50113100	39 41	121 20	3,550	Brush Creek Ranger Station	---	5.47	---	---	---	---	---	---	---	---	---	.45	---
A2302	A10114900	40 52	121 51	371	Buckhorn	50.12	5.47	19.36	3.50	.97	3.86	7.30	.62	1.86	.60	.16	.12	5.70
A1101	A50115900	39 54	121 19	1,760	Bucks Creek Power House	50.65	4.38	15.52	4.49	2.07	3.98	9.77	1.00	.61	.00	.09	.05	3.99
B0100	B90117100	38 17	120 14	285	Buena Vista	18.32	2.19	5.65	1.76	.88	1.83	.70	.11	.00	.26	.00	.08	.86
A2302	A10121400	40 53	120 40	3,127	Burney	23.29	2.83	8.59	1.35	.54	1.38	2.87	.16	.126	.41	.55	.06	3.28
B09D0	B00127700	38 17	120 19	4,596	Calaveras Big Trees	41.40	4.61	12.59	2.89	2.15	5.29	9.22	1.09	.00	.90	.33	.15	2.16
B03B0	B00124800	38 15	120 50	658	Camp Pardee	17.91	2.32	5.00	1.86	1.15	1.74	4.37	.40	.00	.29	.00	.08	.71
A2301	A10147600	41 27	120 52	4,312	Canby Ranger Station	14.08	1.63	4.30	.92	.32	.90	1.40	.20	.86	.19	.07	.16	3.13
A1105	A50149700	40 10	121 05	5,555	Canyon Dam	29.02	2.90	11.22	1.70	.90	3.70	5.50	.50	.30	.00	.10	.00	2.40
A02C0	A60150000	38 42	122 07	300	Capay NW	18.11	1.42	6.81	1.85	.95	3.42	3.25	.01	.00	.63	.03	.14	.40
A1102	A50152000	40 05	121 08	2,986	Caribou Power House	32.23	2.69	10.52	2.07	1.04	4.27	5.58	.22	.22	.00	.80	.02	2.62
A2101	A20157651	41 08	122 19	2,026	Casta Crags State Park	49.82	3.18	20.81	4.50	.82	3.88	5.58	.27	.59	.30	.97	.29	2.63
B0100	B90158300	37 58	121 32	626	Castle Rock RAO Lake	5.92	1.34	3.25	1.11	1.54	.64	1.88	.33	.18	.00	.00	.00	.00
G13B0	G10141600	41 31	120 10	4,670	Cedarville	10.24	1.63	3.40	.73	.28	.98	.87	.36	.62	.08	.09	.03	1.21
A1740	A00163401	40 40	122 21	765	Central Valley-Burns	42.84	2.64	16.26	2.77	1.14	4.12	4.91	.51	1.12	.83	.68	.23	5.83
A0501	B00163501	38 25	121 22	38	Central Valley Hatchery	15.63	1.73	5.49	1.78	.65	1.64	2.66	.22	.00	.13	.00	.01	.91
A1002	A00165300	39 29	121 13	2,560	Challenge Ranger Station	53.27	4.04	16.04	4.97	2.01	13.26	9.66	.65	.00	.00	.01	.01	2.53
A0700	A50169300	39 38	121 31	1,355	Cherokee	33.23	3.71	11.26	4.01	1.74	4.02	5.71	.50	.11	.00	.00	.15	2.02
A1010	A50170000	40 18	121 13	4,525	Chester	21.64	2.40	8.46	.92	.79	2.16	3.37	.40	.33	.04	.22	.12	2.43
A13B0	A00171120	39 46	121 47	283	Chico 3 & NE	21.71	2.68	8.36	2.07	.82	1.21	3.56	.15	.00	.00	.00	.08	2.28
A0240	A00176700	38 28	121 59	205	Circle T Ranch	17.76	1.23	7.27	1.24	1.57	2.61	3.71	.00	.00	.02	.00	.00	.11
A0501	A00177300	38 42	121 17	138	Citrus Heights	18.50	2.44	6.60	1.59	1.05	2.11	3.54	.13	.00	.00	.00	.00	1.02
A0501	A00177301	38 42	121 18	140	Citrus Heights Navion Drive	18.75	1.97	6.74	1.94	.94	1.97	3.86	.14	.00	.23	.00	.00	.96
A0501	A00177334	38 40	121 17	160	Citrus Heights Fire Station	19.35	3.31	6.11	2.01	.86	2.35	3.46	.26	.00	.19	.00	.10	.70
A0501	A00177336	38 40	121 16	208	Citrus Heights-Mudd	16.42	1.82	6.23	1.67	.84	2.04	3.35	.08	.00	.20	.00	.10	.58
A0701	A00178500	39 32	122 23	410	Clarks Valley-Holman	15.17	.85	6.40	2.07	.39	.57	3.13	.24	.00	.00	.00	.00	1.52
B0302	B00178550	38 21	121 10	95	Clay NW	17.77	2.24	5.90	1.79	.78	1.54	2.87	.00	.00	.39	.00	.00	2.21
A0101	A60180400	38 54	122 36	1,149	Clear Lake 4 SE	21.76	2.00	9.28	2.71	.49	1.65	4.45	.13	.00	.00	.08	1.00	.00
B03B0	B00181300	38 12	121 06	120	Clements	17.86	2.17	5.80	1.12	.71	1.49	3.30	.04	.00	.28	.00	.00	1.85
A10E1	A50182950	39 32	121 10	3,405	Clippers Mills Oreleva	61.97	4.98	19.08	5.39	2.39	8.05	17.85	.135	.00	.00	.00	.00	17.90
A0204	A00188000	38 49	122 43	2,620	Cobb	45.73	2.80	20.13	4.75	1.18	5.36	8.84	.33	.04	.03	.04	.03	2.18
A1502	A00189100	39 56	121 43	3,180	Cohasset 1 NNE	41.00	4.58	14.26	3.08	2.00	4.76	6.56	.43	.03	.01	.06	.07	5.16
A1740	A00190700	40 24	122 08	420	Coleman Fish Hatchery	27.00	3.15	7.57	2.57	.91	1.35	4.03	.20	.310	.02	.07	2.06	1.97
A0501	A70191200	39 05	120 57	2,418	Colfax	34.83	3.22	11.20	2.45	1.86	5.65	6.53	.44	.05	.40	.00	.17	2.86
A0503	A70191201	39 05	120 56	2,350	Colfax Fire Station	36.30	3.26	12.16	2.29	1.38	5.21	6.12	.57	.04	.35	.00	.21	2.70
A1003	A60191600	39 19	121 11	585	Colgate Power House	29.41	3.43	9.36	2.93	1.23	4.13	5.70	.22	.00	.19	.03	.14	1.45
A07B1	A00194900	39 12	122 01	500	Colusa 2 SSW	14.51	1.46	6.31	1.42	.90	.88	1.65	.39	.00	.00	.00	.00	1.40
A0602	A70195800	38 53	121 01	1,525	Coal	26.49	3.17	9.65	2.18	1.51	3.09	5.03	.17	.05	.34	.00	.20	1.14
A13B0	A00202700	39 54	122 22	487	Corning-Houghton Ranch	---	---	---	---	---	---	---	---	---	---	---	---	---
B041	B10225200	38 31	120 46	1,820	O Agostini Ranch	26.10	3.03	8.67	1.83	1.08	2.93							

TABLE A-1 (CONTINUED)

AREAL STATION ID# NUMBER	LAT	LONG	ELEV	STATION NAME	TOTAL	PRECIPITATION IN INCHES											
						1984			1985								
						OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
A713 ASDC2071	39 33	120 49	2,495	Dominville Ranger Station	50.20	4.30	18.40	3.47	1.70	6.90	10.80	.98	.30	.20	.12	.20	.40
J24AC BSC25640C	39 33	120 76	2,240	Donville	9.80	1.13	2.65	.67	.31	2.33	2.14	.00	.00	.07	.00	.00	2.66
J25AC BSC25640C	39 33	120 76	2,240	Donville	19.79	1.65	4.00	.92	.65	3.74	2.43	.00	.00	.09	.09	.02	1.29
A744A ASDC2571C	39 35	120 45	3,430	Dryden 4 SSE	35.47	4.82	14.34	3.41	1.90	6.59	8.20	.94	.00	.00	.02	.00	2.15
BC48C BSC25780C	39 26	120 51	740	Dryden-Vaira Ranch	20.30	2.72	6.63	.97	.79	1.95	4.96	.14	.00	.01	.00	.05	1.25
A727B ACDC4570C	38 45	121 50	95	Dufour	14.80	1.69	5.57	1.50	.87	1.36	2.63	.40	.00	.00	.00	.00	.32
A727B ACDC4580C	38 53	121 59	104	Dunsmuir Power Ranch	15.27	1.39	7.18	1.57	.73	1.57	2.72	.08	.00	.03	.00	.03	.57
A727B ACDC4570C	41 12	122 16	2,574	Dunsmuir Treatment Plant	44.59	2.33	23.34	2.42	1.38	3.41	4.90	.14	.04	.33	.93	.35	2.42
A727C ACDC2571C	39 38	121 47	155	Dunham Fire Station	20.22	2.58	8.00	2.18	.75	1.15	2.72	.26	.00	.00	.00	.20	2.38
J250D BSC25942C	40 39	120 46	5,121	Eagle Lake-Alexis	12.02	1.16	4.21	.45	.49	2.66	2.16	.00	.09	.23	.06	.04	1.71
A754A ACDC260534	38 49	121 15	11,560	Eagle Nest At Lupuna Creek	11.56	1.97	5.50	1.71	.69	.25	.50	.14	.00	.35	.00	.00	.79
A754A ACDC259535	47 17	120 75	1,450	Eagleview 2 SE	15.20	.95	3.23	.28	.42	.65	.65	.00	.00	.00	.00	.00	1.30
A742A ASDC2042C	39 22	122 31	1,255	East Park Reservoir	35.37	2.77	6.87	2.33	.39	3.31	3.51	.32	.00	.00	.00	.00	1.52
AC58B ACDC26710C	38 50	120 72	7,370	Ford Summit	38.51	4.94	10.75	2.09	2.12	3.62	8.46	1.11	.07	.33	.21	.25	4.36
A758A ACDC27270C	38 40	120 52	1,950	El Dorado F.F.S.	27.93	3.35	10.06	2.15	.97	4.10	5.56	.12	.00	.30	.10	.19	1.25
BC47C BSC27240C	39 19	120 40	715	Electra Power House	23.90	2.89	6.99	1.93	.61	3.08	5.97	.15	.00	.25	.00	.13	.94
A754A BSC27420C	38 34	121 21	48	Elk Grove Fire Dept.	13.87	1.58	4.93	1.65	.58	1.48	2.20	.18	.00	.31	.00	.00	.96
AC58B ACDC27440C	38 40	121 37	40	Elk River Ferry	14.78	1.41	5.42	1.41	.15	1.58	3.02	.02	.00	.09	.00	.39	.29
BC34C BSC27500C	38 14	121 11	90	Ellison	17.14	2.30	7.18	2.29	.34	1.46	3.21	.14	.00	.34	.00	.00	.68
A718B ASDC29940C	39 35	121 15	2,305	Feather Falls	34.64	5.63	11.00	3.68	1.54	4.18	6.36	1.07	.15	.00	.00	.13	2.50
BC54A BSC30380C	38 51	120 42	2,140	Fiedler-Lynch Ranch	27.50	3.00	9.30	1.90	1.40	3.40	6.30	.30	.00	.40	.00	.10	1.20
AC42A BSC30500C	38 51	120 42	2,140	Fiedler-Lynch Ranch	29.39	3.15	9.30	2.17	1.27	2.25	4.76	.00	.00	.00	.00	.00	1.52
BC58B BSC30700C	40 22	120 19	4,100	Fleming F & L	35.37	1.53	2.10	.37	.48	.96	2.14	.00	.00	.18	.05	.02	.78
AC58B ACDC31130C	38 42	121 19	350	Fellow Dam	18.56	2.13	6.63	1.91	.91	2.27	3.50	.00	.00	.30	.00	.16	.75
A712A ASDC31270C	39 31	121 16	2,940	Forbush	40.00	4.70	15.33	3.33	1.27	7.06	1.00	.00	.00	.00	.00	.00	.00
AC58B ACDC31340C	39 41	120 49	3,190	Foresthill Ranger Station	38.32	4.39	12.28	2.63	1.77	4.29	9.32	.68	.00	.55	.00	.46	2.65
J270C ACDC31570C	41 51	120 08	4,940	Fort Bidwell	16.09	2.99	4.63	1.33	.41	1.53	1.51	1.07	.120	.05	.18	.07	1.72
AC58B ACDC32027C	38 45	120 32	3,740	Fossil Pond	42.40	5.61	13.90	2.56	2.29	6.18	8.26	.54	.03	.59	.00	.23	1.13
A718B ACDC32070C	39 35	120 27	610	Frail 2	16.31	1.66	5.42	2.10	.30	.65	2.82	.27	.00	.00	.04	3.15	.55
BC34C BSC33070C	38 15	121 13	47	Galt	14.73	2.11	5.99	1.18	.70	1.36	2.53	.10	.00	.36	.00	.00	.46
AC58B ACDC33870C	38 54	120 50	2,720	Georgetown	52.99	1.59	10.00	4.00	8.73	16.84	9.10	1.36	1.17	.00	.00	.00	.00
AC58B ACDC33870C	38 55	120 47	3,100	Georgetown Ranger Station	52.99	1.59	10.00	4.00	8.73	16.84	9.10	1.36	1.17	.00	.00	.00	.00
A712A ACDC34050C	41 00	122 24	1,435	Gibson Hill	45.33	3.34	24.69	3.97	1.77	3.17	5.39	.74	.37	.95	.86	.22	2.61
A713B ACDC34050C	39 47	122 03	180	Glenn-Golden Headgate	17.51	1.76	7.22	2.65	.69	.50	3.21	.47	.00	.00	.00	.00	1.61
AC503 ACDC34970C	39 10	120 51	3,400	Solid Run	43.17	4.25	13.67	2.93	1.85	6.01	10.19	.73	.10	.43	.05	.18	2.78
AC502 ASDC35730C	39 42	121 14	2,320	Grass Valley No. 2	39.86	4.92	11.58	2.95	.52	6.25	8.97	.61	.70	.37	.02	.10	1.87
A713B ACDC36270C	40 08	120 55	3,500	Grass Valley Ranger Station	28.62	2.37	11.08	1.17	.06	4.29	5.00	.14	.06	.03	.25	.01	2.37
A710C ACDC36400C	39 32	121 41	90	Grass Valley No. 40	17.22	2.10	7.69	1.89	.76	1.35	2.53	.10	.00	.04	.00	.00	1.46
A710C ACDC36400C	39 33	120 41	93	Grass Valley No. 40	15.49	1.68	6.00	1.80	.40	1.75	2.43	.15	.00	.00	.00	.00	1.44
GE34C BSC36705C	38 41	119 49	5,800	Grass Valley North Springs	20.90	2.59	5.04	1.94	.55	1.66	3.36	.09	.00	.23	.61	.07	2.78
A713B ACDC37170C	40 22	122 55	2,710	Harrison Gulch Ranger Station	15.74	1.74	17.31	2.77	.57	3.38	3.94	.38	.22	.47	.05	.29	.82
A728B ACDC38240C	40 56	121 33	3,115	Hart Creek Power House #1	17.65	2.25	6.30	1.14	.51	.75	2.48	.05	.99	.43	.26	.09	2.35
GC34C BSC38240C	40 59	120 06	4,783	Harlow S O D	5.74	1.07	1.16	.55	.15	.85	1.86	.00	.00	.00	.00	.10	.00
A713B ACDC38700C	39 14	121 16	580	Hill Embury Dam	25.38	1.90	8.51	2.85	.14	3.84	5.69	.14	.00	.08	.03	.18	.42
BC54C BSC40140C	38 19	120 49	554	Rocky Mountain	17.37	2.68	5.40	1.55	1.14	1.85	5.08	.15	.00	.37	.00	.00	.99
BC10C BSC41400C	37 55	121 23	1,100	Holt 2 SSE	9.53	1.13	3.05	1.17	.80	1.02	2.14	.00	.00	.22	.00	.00	.10
AC58C ACDC41400C	39 19	121 31	113	Holmt	19.37	2.69	6.58	1.33	.65	1.79	2.75	.12	.00	.00	.00	.00	1.17
A714B ACDC41400C	40 37	120 34	1,020	Igo 2 W	35.37	2.50	16.00	2.68	.05	3.15	9.49	.85	.92	.39	1.81	.31	3.69
BC54C BSC42450C	38 45	120 38	2,490	Indian Grinding Rock Srp.	30.89	3.73	9.23	2.01	.64	4.11	7.54	.29	.00	.52	.00	.12	.61
BC54C BSC42450C	38 20	120 56	284	Ione	17.33	1.84	5.30	1.68	.85	2.00	3.87	.02	.00	.30	.00	.00	1.07
AC503 ACDC42880C	39 14	120 50	3,150	Iowa Hill	31.39	4.04	11.42	2.95	.36	3.24	6.35	.60	.04	.45	.00	.21	1.61
BC54B BSC43210C	38 21	120 47	1,590	Jackson 1 W	22.00	3.01	7.24	1.82	.05	2.11	5.21	.14	.00	.45	.00	.10	.07
AC543 ACDC43450C	38 50	120 31	3,000	Jay Bird Power House	33.08	4.05	11.51	2.56	.83	5.34	10.13	.78	.03	.33	.00	.00	2.24
A714C ACDC43460C	40 20	122 12	355	Jelly	24.47	2.61	8.92	3.79	.19	1.32	4.03	.25	.90	.1	.00	.25	.15
BC30C BSC43500C	38 74	120 54	235	Jenny Lind 35 W	15.56	2.04	4.80	1.36	.10	1.17	3.56	.15	.00	.32	.00	.00	.39
A723B ACDC43740C	41 15	120 22	5,390	Jess Valley	14.41	2.63	3.31	.77	.79	1.18	1.53	.64	.54	.19	.46	.03	2.39
A714C ACDC44440C	38 47	121 39	233	Karnak	14.12	1.62	5.59	1.34	.99	1.37	2.51	.01	.00	.00	.00	.00	.57
AC58B ACDC44440C	38 49	120 42	2,000	Kelsey IV	27.38	2.38	9.93	1.80	.23	3.81	5.66	.10	.00	.00	.00	.00	1.34
A724A ASDC44971C	39 00	122 52	1,345	Kelso Valley 2N	20.12	1.95	8.40	1.99	.44	1.66	4.18	.18	.00	.00	.00	.07	1.28
BC20C BSC45020C	37 40	121 25	172	Kerlinger	11.00	1.08	2.48	.61	.80	.00	.00	.00	.00	.00	.00	.00	.00
A720C ACDC46440C	40 41	121 52	2,650	Kilane Power House	35.21	4.21	13.50	3.29	1.12	1.74	5.28	.55	1.49	.74	.05	.16	4.08
AC543 ACDC46740C	38 54	121 48	35	Kirkville	19.43	1.50	5.26	1.63	.92	1.45	2.30	.14	.00	.04	.00	.00	1.58
AC543 ACDC46740C	38 54	122 55	1,315	Lakeport	24.81	2.37	10.54	2.35	.67	1.12	3.09	.00	.00	.00	.00	.00	1.16
AC543 ACDC46740C	39 03	122 58	1,475	Lakeport 3W	29.19	2.85	12.21	2.61	.60	3.41	6.63	.17	.00	.00	.00	.00	1.71
AC58C ACDC47270C	38 29	122 03	190	Lake Solano	18.60	1.24	7.47	1.55	.40	2.63	3.99	.02	.00	.03	.04	.03	.20
A717A BSC47730C	39 19	120 38	5,160	Lake Spaulding	53.14	4.88	17.09	3.87	1.81	6.65	12.92	1.36	.13	.52	.07	.38	3.53
GC34C BSC47730C	40 24	120 30	4,100	Lakeview (Conservation Center)	14.12	1.62	5.59	1.34	.99	1.37	2.51	.01	.00	.00	.00	.00	.57
BC54C BSC47730C	38 35	120 07	500	Lerman Ranch	25.66	3.00	8.68	2.80	.45	4.80	8.00	.31	.04	.31	.00	.17	1.62
A718B ACDC47770C	38 33	121 17	190	Lincoln Austin	16.84	1.75	5.57	1.64	.72	2.54	3.56	.05	.00	.15	.00	.05	.77
BC30C BSC495370C	38 11	121 05	69	Lincoln Fire Station	15.94	2.14	5.28	2.23	1.33	1.12	3.18	.15	.00	.30	.00	.00	.22
AC58C ACDC49620C	39 12	121 43	70	Live Oak 2 SSE	16.81	1.94	5.91										

TABLE A-1 (CONTINUED)

AREAL CODE	STATION NUMBER	LAT	LONG	ELEV	STATION NAME	TOTAL	PRECIPITATION IN INCHES											
							1	2	3	4	5	6	7	8	9	10	11	12
AC5B1	AC05097C1				Loomis No. 2	15.68	1.66	8.41	1.81	2.89	1.21	3.40	1.67	1.27	1.21	1.21	1.21	1.21
AC5B1	AC05097C3	38 50	121 08	680	Loomis 3 FNF	22.39	2.25	7.96	2.05	2.30	2.35	4.55	2.65	1.21	1.21	1.21	1.21	1.21
BC200	B08513C56	37 59	121 51	130	Los Medanos Tank Farm	10.96	1.25	4.02	1.13	1.57	1.54	2.26	1.25	1.21	1.21	1.21	1.21	1.21
A138C	AC05134C6	40 03	122 15	355	Los Medanos Dam	13.43	1.42	6.52	1.13	1.46	1.41	3.33	1.41	1.21	1.21	1.21	1.21	1.21
AT70C	AC05223C0	39 42	121 53	145	M and T Ranch	20.71	2.45	1.24	2.40	1.78	1.85	3.51	1.21	1.21	1.21	1.21	1.21	1.21
A182A	AC05311C0	40 32	121 34	5,850	Manzanita Lush	15.77	8.49	12.13	2.51	1.25	2.51	4.26	1.56	1.21	1.21	1.21	1.21	1.21
AC242	AC05360C0	38 30	122 07	1,480	Mariposa Cove	11.50	1.45	7.54	1.65	1.89	1.47	3.10	1.47	1.21	1.21	1.21	1.21	1.21
GC58C	G705378C1	39 15	120 07	5,300	Martia Creek Dam	15.00	2.00	5.40	1.20	1.70	1.61	3.20	1.21	1.21	1.21	1.21	1.21	1.21
AC80C	AC05385C0	39 08	121 35	90	Marysville	16.45	2.44	5.24	1.48	1.44	1.54	2.88	1.21	1.21	1.21	1.21	1.21	1.21
AC5A2	AC05413C0	38 34	121 18	30	Mather Air Force Base	15.73	1.48	4.89	1.29	1.25	1.27	3.44	1.21	1.21	1.21	1.21	1.21	1.21
AC7B1	AC05490C1	39 16	122 11	31	Mayfield	18.64	1.87	7.18	1.65	1.63	1.61	2.43	1.64	1.21	1.21	1.21	1.21	1.21
AC23B1	AT05431C0	41 00	121 37	2,950	McArthur-Burney Falls SP	28.27	3.44	11.70	1.55	1.68	2.10	3.19	2.44	1.21	1.21	1.21	1.21	1.21
AC5B1	AC05447C0	38 39	121 23	70	McJannet Air Force Base	18.41	2.19	6.58	1.67	1.74	2.70	1.75	1.21	1.21	1.21	1.21	1.21	1.21
AC23D1	AC05449C0	41 16	122 08	3,100	McLeod	15.41	2.10	16.28	1.18	1.14	2.18	3.43	1.18	1.21	1.21	1.21	1.21	1.21
AC18C	AC05598C0	38 44	122 37	1,122	Midstream	39.45	2.17	16.82	1.50	1.77	1.62	6.64	1.21	1.21	1.21	1.21	1.21	1.21
AC18C	AC05599C0	38 44	122 40	1,785	Midstream 4 W	54.55	1.31	22.11	1.26	1.59	1.48	8.41	1.16	1.21	1.21	1.21	1.21	1.21
GC84C	GC65621C0	40 10	120 21	4,140	Millford	10.45	2.50	2.60	1.58	1.50	1.20	1.40	1.00	1.21	1.21	1.21	1.21	1.21
A182A	AC05679C0	40 21	121 30	4,910	Mineral	38.73	1.96	13.88	2.45	1.31	3.63	4.50	1.50	1.21	1.21	1.21	1.21	1.21
AT102	AC05752C0	39 47	120 37	4,370	Mohawk Ranger Station	23.68	1.71	8.23	1.82	1.46	1.50	5.72	1.00	1.21	1.21	1.21	1.21	1.21
BC58C	BZ05892C5	38 16	122 34	2,200	Mountain Ranch 2 NW	30.58	4.06	9.30	1.62	2.07	1.72	7.33	1.61	1.21	1.21	1.21	1.21	1.21
AT2B2	AC05895C0	41 19	122 19	3,540	Mount Shasta WBO City	—	—	—	—	—	1.36	1.90	1.00	1.37	1.00	1.59	1.24	1.34
AT07C	AC06130C0	39 33	121 47	120	Nelson Western Camp	—	1.19	6.97	1.91	1.45	1.15	—	—	—	—	—	—	—
A182C	AC06136C0	39 15	121 00	2,520	Nevada City	38.75	4.44	12.18	2.31	1.31	5.19	8.27	1.53	1.21	1.21	1.21	1.21	1.21
AC5A3	AC06153C5	38 53	121 13	250	Newcastle Fowler	19.40	2.50	5.00	1.87	1.06	2.04	4.61	1.00	1.21	1.21	1.21	1.21	1.21
BC5A2	AC06155C5	38 19	120 48	650	New Hosam	16.95	2.63	4.86	1.60	1.81	2.11	4.01	1.69	1.21	1.21	1.21	1.21	1.21
AC5B2	AC06194C0	38 55	121 32	43	Nicolaus 2	16.04	2.66	5.55	1.67	1.41	1.24	2.70	1.11	1.21	1.21	1.21	1.21	1.21
A182B	AC06211C0	39 32	122 40	5,000	Noel Springs	22.70	1.70	15.00	3.45	1.30	4.40	5.00	1.41	1.21	1.21	1.21	1.21	1.21
AC18C	AC06216C0	39 48	121 54	190	Nord Fire Station	17.31	2.38	6.93	1.48	1.57	1.80	3.15	1.22	1.21	1.21	1.21	1.21	1.21
AT07C	AC06232C0	39 22	120 53	3,280	North Bloomfield	38.15	4.40	11.60	3.65	2.10	4.60	9.10	1.20	1.21	1.21	1.21	1.21	1.21
AT07C	AC06274C0	39 22	121 00	2,681	North San Juan	35.30	3.46	12.40	2.69	2.52	4.80	6.74	1.25	1.21	1.21	1.21	1.21	1.21
AC23D1	AT06297C0	41 06	121 11	4,150	Nubeoer	16.61	2.35	5.53	1.86	1.27	1.79	2.50	1.00	1.21	1.21	1.21	1.21	1.21
AC23B1	AT06415C0	40 40	121 25	4,380	Old Station	20.80	1.99	6.45	1.20	1.51	1.83	3.18	1.20	1.21	1.21	1.21	1.21	1.21
AC5B1	AT06431C0	38 41	121 13	235	Oranaveale	17.30	1.30	6.95	1.79	1.33	2.32	3.20	1.00	1.21	1.21	1.21	1.21	1.21
AT07B1	AC06505C0	39 37	122 19	312	Orland-French Ranch	15.93	1.69	6.46	2.11	1.44	1.54	2.94	1.15	1.21	1.21	1.21	1.21	1.21
AT07B2	AC06506C0	39 45	122 12	254	Orland	17.50	1.57	7.61	2.35	1.71	1.41	3.84	1.20	1.21	1.21	1.21	1.21	1.21
AC18C	AC06521C0	39 30	121 33	171	Orsoville	22.86	2.40	9.06	1.90	1.98	1.97	3.13	1.04	1.21	1.21	1.21	1.21	1.21
AT1A2	AC06527C0	39 31	121 28	845	Orsoville Dam	23.55	3.35	7.92	2.26	1.53	2.16	3.75	1.66	1.21	1.21	1.21	1.21	1.21
AT07C	AC0652335	39 38	121 38	340	Orsoville 1 NW Butte College	23.05	2.86	8.18	2.68	2.07	1.41	3.17	1.61	1.21	1.21	1.21	1.21	1.21
BC441	AT06597C0	38 45	120 30	3,440	Pacific House	39.47	5.13	13.57	2.55	2.07	4.86	7.91	1.46	1.21	1.21	1.21	1.21	1.21
AC18C	AC06620C0	39 26	121 32	156	Pajero	16.81	1.46	6.93	1.40	1.50	1.68	2.70	1.00	1.21	1.21	1.21	1.21	1.21
A182C	AT06650C0	39 46	121 38	1,790	Paradise	38.54	3.71	14.34	2.90	1.57	4.91	6.53	1.44	1.21	1.21	1.21	1.21	1.21
A182C	AT06654C0	39 46	121 35	2,010	Paradise Fire Station #1	41.59	2.71	16.46	3.80	1.75	6.34	6.65	1.10	1.21	1.21	1.21	1.21	1.21
A183C	AT06726C0	39 53	122 32	755	Pasadena Ranger Station	—	1.67	7.89	1.98	—	—	3.84	—	1.21	1.21	1.21	1.21	1.21
AC5B5	AT06773C0	38 47	120 26	515	Peavine Ridge	40.81	6.79	10.21	2.50	2.11	3.99	7.19	1.30	1.21	1.21	1.21	1.21	1.21
BC30C	BC0681915	38 08	120 55	315	Perry Ranch USFE	16.20	2.10	4.40	1.98	1.20	1.50	3.00	1.00	1.21	1.21	1.21	1.21	1.21
AT07C	AC06841C0	39 42	121 55	120	Phelan Parrott Ranch	17.94	2.22	6.70	2.47	1.68	1.24	3.07	1.74	1.21	1.21	1.21	1.21	1.21
BC44C	BT06898C0	38 24	120 38	2,350	Pine Grove Camp, CA	30.97	3.84	9.53	1.95	1.77	3.37	8.01	1.20	1.21	1.21	1.21	1.21	1.21
AC23C1	AT06944C0	41 00	121 30	2,830	Pit River Power House #1	—	2.03	6.19	1.69	1.83	1.68	2.08	1.00	1.21	1.21	1.21	1.21	1.21
AC23A3	AT06946C0	40 59	121 59	1,458	Pit River Power House #2	49.75	3.99	20.86	4.31	1.10	4.15	5.77	1.44	1.21	1.21	1.21	1.21	1.21
AC6B1	AT06960C0	38 43	120 47	1,890	Placerville	28.44	3.19	11.46	2.17	1.95	3.41	6.13	1.15	1.21	1.21	1.21	1.21	1.21
AC5B1	AT06964C0	38 44	120 50	1,584	Placerville Disp. Plant	28.79	2.80	10.00	2.20	1.10	4.30	6.20	1.00	1.21	1.21	1.21	1.21	1.21
AC5B1	AT06962C0	38 44	120 44	2,595	Placerville IDP	29.07	1.05	12.58	1.89	1.44	3.90	5.00	1.00	1.21	1.21	1.21	1.21	1.21
GC28C	AC06964C0	38 35	121 48	65	Plainfield 1 NW	12.90	1.31	4.71	1.12	1.04	1.24	2.97	1.00	1.21	1.21	1.21	1.21	1.21
AC28C	AC06977C0	38 28	122 02	250	Pleasant Valley	—	1.52	9.23	2.00	—	—	—	—	1.21	1.21	1.21	1.21	1.21
AT1C2	AC06998C0	39 45	120 41	5,165	Plumas Eureka Park	42.17	3.78	13.78	3.37	3.33	3.48	10.73	1.65	1.21	1.21	1.21	1.21	1.21
BC441	BT07000C3	38 31	120 55	485	Plymouth 6 NW	20.98	2.52	7.88	1.60	1.64	2.55	4.06	1.03	1.21	1.21	1.21	1.21	1.21
BC44A	BT07000C4	38 33	120 58	1,050	Plymouth 4 NNE	—	2.94	8.40	1.90	—	—	—	—	1.21	1.21	1.21	1.21	1.21
AT1C2	AS07080C0	39 48	120 28	1,638	Portola	18.28	1.57	4.76	1.20	1.29	3.68	4.66	1.15	1.21	1.21	1.21	1.21	1.21
AT03A2	8207133C0	38 21	120 56	350	Preston School	16.58	1.64	5.80	1.65	1.73	1.99	3.70	1.04	1.21	1.21	1.21	1.21	1.21
810A2	AS07195C0	39 56	120 55	3,409	Quincy Ranger Station	28.67	2.56	10.98	2.30	1.61	4.75	4.66	1.07	1.21	1.21	1.21	1.21	1.21
AT1C0C	AC07215C0	39 26	121 19	1,400	Rackeby	31.15	3.89	9.39	3.02	1.73	3.73	7.18	1.17	1.21	1.21	1.21	1.21	1.21
BC58C	BC07221C1	38 18	120 32	2,540	Rackeby Flat	30.10	3.45	8.41	1.89	2.30	4.12	6.37	1.00	1.21	1.21	1.21	1.21	1.21
BC58C	BC07221C2	38 20	120 33	2,720	Rackeby Flat 2nd	20.80	2.80	1.80	1.80	1.90	3.60	6.70	1.10	1.21	1.21	1.21	1.21	1.21
AC5B1	AT07247C0	38 35	121 18	85	Rancho Cordova	15.16	1.78	5.44	1.78	1.76	1.60	3.11	1.20	1.21	1.21	1.21	1.21	1.21
AC5B1	AT07247C2	38 36	121 18	6,580	Rancho Cordova TP	15.29	1.48	5.78	1.48	1.38	2.18	3.31	1.15	1.21	1.21	1.21	1.21	1

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TABLE A-2
STORAGE GAGE PRECIPITATION DATA

Storage gages are used to record seasonal precipitation in remote regions. They consist of tanks which store an entire year's precipitation and are read annually. Although logistics preclude conducting the measurement exactly at the end of the water year, the gages reasonably depict the total precipitation for the water year since precipitation during the summer months is negligible. In preparation for a new water year, the tanks are emptied, cleaned, and supplied with antifreeze and oil to prevent freezing and loss due to evaporation. Table A-2 lists the values from the storage gages. The locations of the storage gages are shown in Figure 3.

The counties in which storage gage stations are located are identified with the code listed below:

County	Code
Alpine	ALP
Colusa	COL
Glenn	GLE
El Dorado	ELD
Lassen	LAS
Modoc	MOD
Nevada	NEV
Placer	PLA
Plumas	PLU
Siskiyou	SIS
Shasta	SHA
Tehama	TEH

TABLE A-2
STORAGE GAGE PRECIPITATION DATA

Station Name	Station Number	Areal Code	County	Lat.	Long.	Elev.	Measurement Period	Precipitation (Inches)
Sacramento River Basin								
Pit River A1								
Blacks Mountain	A10 0857	A23C1	LAS	40-46-00	121-12-00	7200	07/23/84 to 06/17/85	22.87
Butte Lake	A10 1238	A23B6	LAS	40-33-48	121-18-06	6060	09/29/84 to 09/18/85	34.15
Dead Horse Reservoir 2SE	A10 2320	A23E4	MOD	41-42-00	120-33-00	5075	07/25/84 to 06/20/85	12.58
Lassen Creek - Upper	A10 4815	A24A0	MOD	41-45-	120-14-42	6775	07/26/84 to 06/20/85	18.65
Long Bell Station	F10 5081	A23D3	MOD	41-28-00	121-25-00	4375	07/17/84 to 06/25/85	18.65
Medicine Lake	F10 5505	A23C3	SIS	41-35-00	121-37-00	6725	07/17/84 to 06/25/85	32.90
Patterson Meadow	A10 6750	A23E3	MOD	41-11-00	121-12-00	7000	07/25/84 to 06/19/85	14.59
Pepperdines Camp	A10 6803	A23E2	MOD	41-26-30	120-14-00	6650	07/25/84 to 06/19/85	27.27
Swagert Flat	A10 8718	A23D2	MOD	41-14-	120-47-30	6000	07/24/84 to 06/18/85	26.75
Shasta Lake A2								
Mount Shasta Slope	A20 5982	A21B2	SIS	41-22-00	122-16-00	7500	07/19/84 to 06/27/85	45.83
Stouts Meadow	A20 8591	A22A4	SHA	41-10-00	121-56-00	5300	07/18/84 to 06/26/85	47.64
Sacramento Valley Westside A3								
Alder Springs	A30 0090	A14B1	GLE	39-39-39	122-42-26	4400	10/11/84 to 10/01/85	33.30
Ball Mountain L.O.	A30 0466	A16A0	TEH	39-56-00	122-47-00	6500	07/12/84 to 06/10/85	34.80
Log Spring	A30 5042	A16A0	TEH	39-49-36	122-47-29	5050	10/10/84 to 10/01/85	31.60
Noel Spring	A30 6211	A14B2	GLE	39-32-16	122-40-03	5000	10/11/84 to 10/02/85	30.90
Saddle Camp R.S.	A30 7637	A19A1	TEH	40-11-00	122-48-00	3850	07/19/84 to 06/09/85	25.88
Trough Spring	A30 9037	A14C1	COL	39-17-48	122-39-11	4000	10/12/84 to 10/02/85	29.90
Sacramento Valley Northeast A4								
Dewitt Peak 2WSW	A40 2416	A15C2	TEH	40-08-43	121-58-23	1480	07/13/84 to 06/14/85	17.65
Hogback Road	A40 4019	A1502	TEH	40-13-27	122-00-03	1320	07/09/84 to 06/10/85	19.05
McCarthy Point	A40 5444	A15C2	TEH	40-11-00	121-41-00	3800	07/11/84 to 06/12/85	29.50
Twenty Mile Hollow	A40 9098	A15C1	TEH	40-07-33	121-48-12	2800	07/11/84 to 06/12/85	20.85
Feather River A5								
Boulder Creek G.S.	A50 1002	A11E4	PLU	40-11-52	120-36-45	5020	08/22/84 to 08/21/85	19.58
Camel Peak	A50 1348	A11C1	PLU	39-43-26	121-05-58	5560	08/21/84 to 08/20/85	14.90
Clarks Peak 1 NE	A50 1783	A11E5	PLU	40-12-50	120-29-34	5910	08/22/84 to 08/21/85	19.49
Clover Valley	A50 1845	A11E6	PLU	39-56-40	120-27-00	5500	08/21/84 to 08/20/85	14.90
Granite Spring	A50 3544	A11E5	PLU	40-06-23	120-20-34	5765	08/22/84 to 08/21/85	15.92
Lights Creek	A50 4932	A11E3	PLU	40-13-48	120-42-30	5320	08/22/84 to 08/22/85	25.09
Little Last Chance Valley	A50 4977	A11C5	PLU	39-57-40	120-13-00	5730	06/21/84 to 08/20/85	13.87
Mt. Hough Snowcourse	A50 5956	A11E2	PLU	40-02-29	120-52-43	6760	08/21/84 to 08/19/85	35.32
Onion Valley	A50 6452	A11C2	PLU	39-48-00	120-53-06	6530	08/20/84 to 08/19/85	39.48
Swain Mountain	A50 8716	A11D2	PLU	40-26-40	121-06-00	6160	08/22/84 to 08/21/85	53.82
Three Mile Valley	A50 8909	A11C3	PLU	39-54-05	120-34-15	5900	08/21/84 to 08/20/85	27.19
American River A7								
Brushy Springs G.S.	A70 1133	A06C2	PLA	39-00-20	120-34-40	4880	08/17/84 to 08/30/85	37.89
Robertson Flat	A70 7492	A06C2	PLA	39-09-26	120-30-06	6740	06/17/84 to 08/30/85	56.23
The Cedars	A70 8881	A06D5	PLA	39-15-00	120-21-12	5900	08/08/83 to 09/06/85	141.42
Westville	A70 9597	A06D5	PLA	39-10-30	120-39-08	5290	08/17/84 to 08/30/85	51.17
San Joaquin River Basin								
Cosumnes River B1								
Lumberyard	B10 5189	B04C0	ELD	38-32-55	120-18-24	6480	08/14/84 to 08/09/85	56.40
Mokelumne-Calaveras Rivers B2								
Highland Lakes	B20 3952	B04C0	ALP	38-29-48	119-47-48	8700	07/18/84 to 08/15/85	24.00
North Lahontan Area								
Madeline Plains G2								
Dodge Reservoir 3 NNE	G20 2460	G1100	LAS	41-00-30	120-07-30	6400	07/24/84 to 06/18/85	12.73
Eagle Lake G3								
Champs Flat	G30 1644	G08C1	LAS	40-41-42	120-57-30	5590	07/23/84 to 06/17/85	12.20
Truckee River G7								
Brockway Summit	G70 1096	G05B0	NEV	39-16-	120-04-	7200	09/18/84 to 09/18/85	26.10

APPENDIX B

SURFACE WATER MEASUREMENT

APPENDIX B

SURFACE WATER MEASUREMENT

Appendix B presents the daily mean discharges and daily mean stages (water levels) at designated stations in Northeastern California for the water year October 1, 1984 through September 30, 1985. Daily mean discharge data are contained in Table B-1, pages 38 through 99. Daily mean stage data are listed in Table B-2, pages 101 through 115. These data are presented by station in downstream order. (Stations on a tributary are arranged in downstream order with respect to the tributary flow, and are listed between the main stream stations that straddle the tributary junction.)

Surface water stations are named for the stream and a landmark or post office, such as "Bear Creek near Lodi." The first character of a surface water station number designates the basin in which the station is located and for this volume, is one of the areal code letters shown in Figure 1. The second character, a numeric, designates a specific tributary area within the major basin. These two characters, therefore, indicate the general location of the station.

The discharge table data includes the maximum and minimum discharges and their corresponding gage heights, the maximum discharge of record, station description, and other pertinent data concerning each station. Discharge stations in this appendix are listed on pages 30 and 31. Their locations are shown on Figure 4, pages 32 through 37. The basins and tributary areas pertaining to the discharge measurements are:

BASIN A - SACRAMENTO RIVER

- Tributary area 0 - Sacramento Valley Floor
- Tributary Area 1 - Pit River
- Tributary Area 4 - Sacramento Valley Northeast
- Tributary Area 8 - Cache Creek
- Tributary Area 9 - Putah Creek

BASIN B - SAN JOAQUIN RIVER

- Tributary Area 0 - San Joaquin Valley Floor

BASIN G - NORTH LAHONTAN

- Tributary Area 1 - Surprise Valley
- Tributary Area 3 - Eagle Lake
- Tributary Area 6 - Herlong

The discharge estimated for periods of no record are shown with the letter "E." Also qualified by the letter "E" are discharges obtained from extended ratings which exceed 140 percent of the highest measured flow-rate on which the rating curve was based. The discharge figures have been rounded as follows:

Daily flows - second-feet

0.0	-	9.9	nearest Tenth
10	-	999	nearest Unit
1,000	-	9,999	nearest Ten
10,000	-	99,999	nearest Hundred
100,000	-	999,999	nearest Thousand

Monthly means - second-feet

0.0	-	99.9	nearest Tenth
100	-	9,999	nearest Unit
10,000	-	99,999	nearest Ten
100,000	-	999,999	nearest Hundred

Monthly and yearly totals - acre-feet

0.0	-	9,999	nearest Unit
10,000	-	99,999	nearest Ten
100,000	-	999,999	nearest Hundred
1,000,000	-	9,999,999	nearest Thousand

Index to Daily Mean Discharge Table

Station Name	Station Number	Map Page	Data Page
Alder Creek at Glenbrook	A85710	36	78
Ash Creek at Adin	A18350	33	39
Bear Creek near Lodi	B02010	37	93
Bear Creek near Rumsey	A81250	36	81
Bidwell Creek near Ft. Bidwell	G12200	33	94
Big Chico Creek at Chico	A04250	34	52
Burney Creek at Park Ave near Burney	A15145	32	40
Butte Creek near Durham	A04265	34	66
Butte Slough at Outfall Gates	A02967	34	56
Butte Slough near Meridian	A02972	34	68
Cache Creek at Rumsey	A81135	36	82
Calaveras River near Stockton	B02520	37	89
Cedar Creek at Cedarville	G15150	33	95
Cherokee Canal near Richvale	A02984	34	67
Colusa Basin Drain at Highway 20	A02976	34	61
Colusa Basin Drain at Knights Landing	A02945	36	64
Colusa Weir Spill to Butte Basin near Colusa	A02981	34	55
Cottonwood Creek North Fork near Igo	A03545	34	41
Dry Creek below Roseville	A00041	37	85
Duck Creek near Stockton	B02835	37	92
Eagle Creek at Eagleville	G17150	33	96
Emerson Creek near Eagleville	G14500	33	97
Feather River near Gridley	A05165	34	74
Fremont Weir Spill to Yolo Bypass	A02930	36	65
French Camp Slough near French Camp	B02805	37	91
Freshwater Creek near Williams	A00647	34	62
High Valley Creek above Kelsey Creek	A85610	36	80
Honcut Creek, North, near Bangor	A05735	35	87
Kelsey Creek at Glenbrook	A85701	36	77
Kelsey Creek below Kelseyville	A85005	34	79

Index to Daily Mean Discharge Table (Continued)

Station Name	Station Number	Map Page	Data Page
Lindo Channel near Chico	A00615	34	49
Little Chico Creek near Chico	A04280	34	50
Little Chico Diversion near Chico	A04910	34	51
Long Valley Creek near Hallelujah Junction	G61705	35	99
Middle Creek near Upper Lake	A81810	34	76
Mill Creek near Mineral	A44180	34	44
Mosher Creek near Stockton	B02008	37	88
Moulton Weir Spill to Butte Basin near Colusa	A02986	34	54
Mud Creek Diversion at Chico	A00928	34	48
Mud Creek near Chico	A04242	34	47
Pine Creek at Eagle Lake near Susanville	G31140	33	98
Pine Creek near Alturas	A14100	33	38
Pope Creek near Pope Valley	A95010	36	83
Putah Creek, South Fork, near Davis	A09115	36	86
Reclamation District #70 Drain to Sacramento River	A02965	34	59
Reclamation District #108 Drain to Sacramento River	A02933	36	58
Reclamation District #787 Drain to Colusa Basin Drain	A02950	36	63
Reclamation District #787 Drain to Sacramento River	A02955	36	60
Reclamation District #1500 Drain to Sacramento Slough	A02926	36	72
Reclamation District #1660 Drain to Sutter Bypass near Tisdale	A05922	34	69
Reclamation District #1660 Drain to Tisdale Bypass	A02963	34	71
Red Bank Creek near Red Bluff	A03460	34	43
Reeds Creek at Wilder Road	A00268	34	42
Sacramento River at Hamilton City	A02630	34	46
Sacramento River at Ord Ferry	A02570	34	53
Sacramento River at Vina Bridge	A02700	34	45
Sacramento Slough at Sacramento River	A02925	36	73
Sacramento Weir Spill to Yolo Bypass	A02903	36	84
Scotts Creek at Eickhuff Road near Lakeport	A81845	34	75
Stockton Diversion Canal at Stockton	B02580	37	90
Tisdale Weir Spill to Sutter Bypass	A02960	34	57
Wadsworth Canal near Sutter	A05929	34	70

42°

122°

LEGEND

SURFACE WATER MEASUREMENT STATIONS

- ▲ DISCHARGE DATA
- △ STAGE DATA
- DISCHARGE and STAGE DATA

MAJOR BASIN and TRIBUTARY AREA

MAJOR BASIN BOUNDARY

BOUNDARY of TRIBUTARY AREA



KEY TO SHEETS



Scale in Miles

123

See Sheet 2

122°

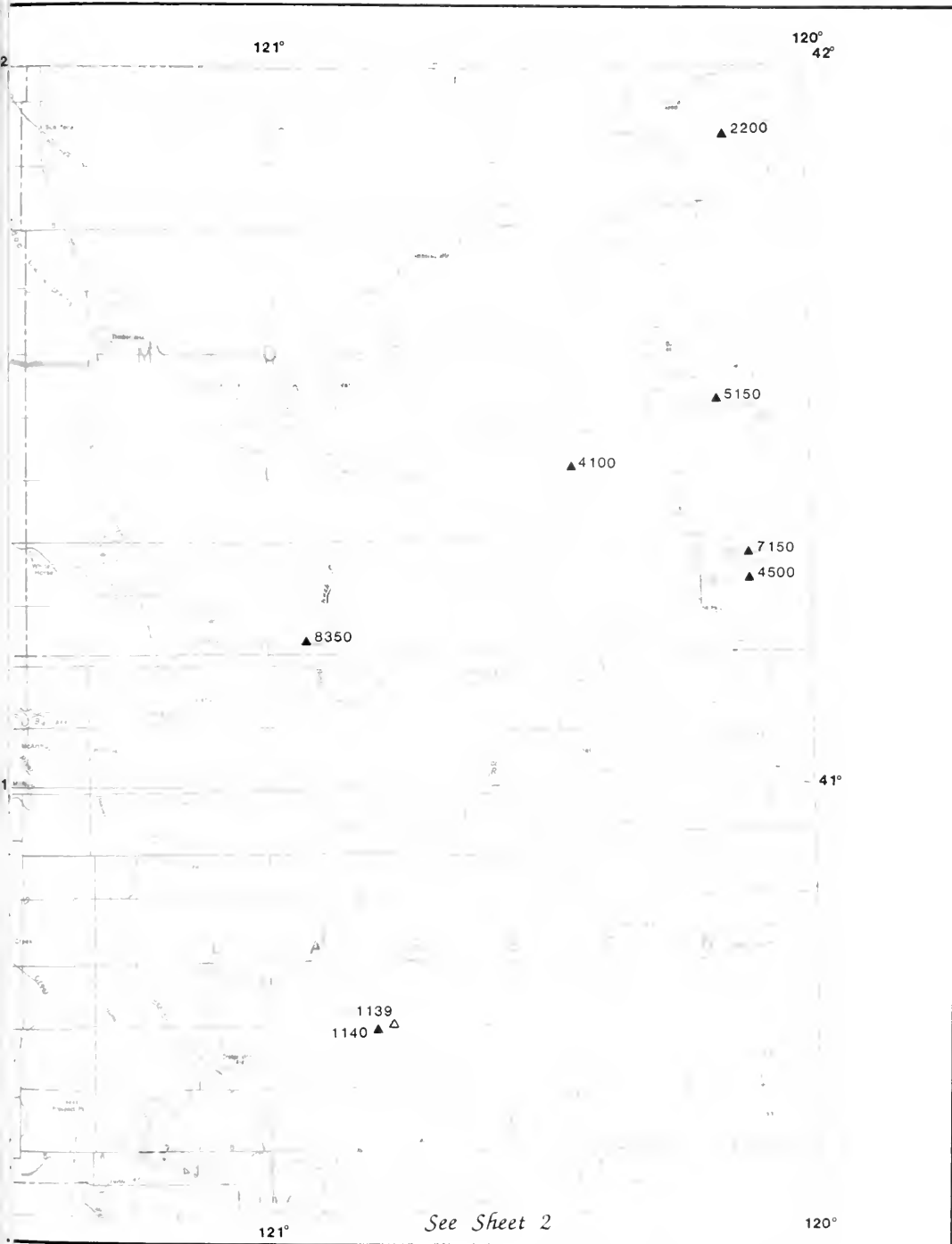
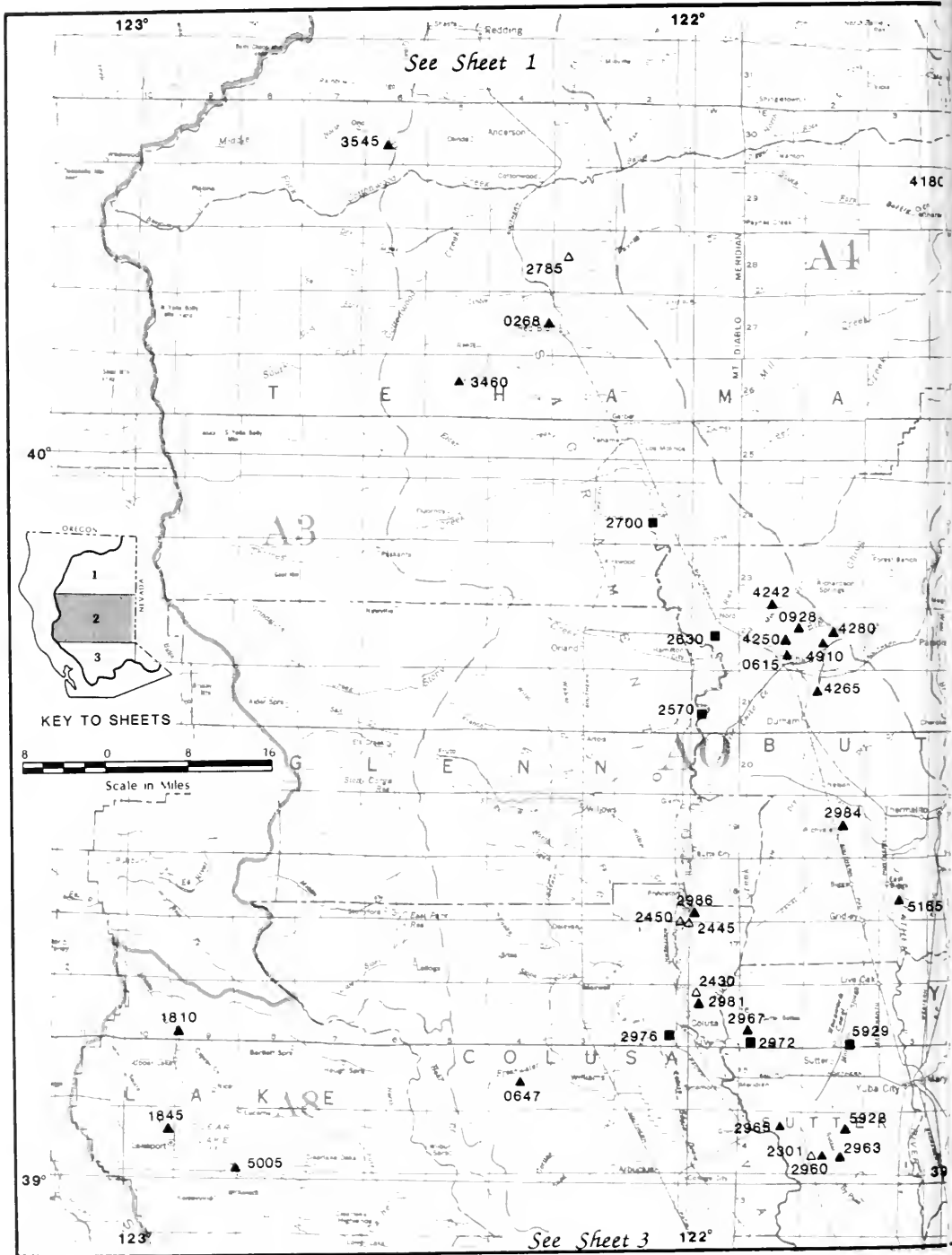


Figure 4. LOCATION OF SURFACE WATER MEASUREMENT STATIONS



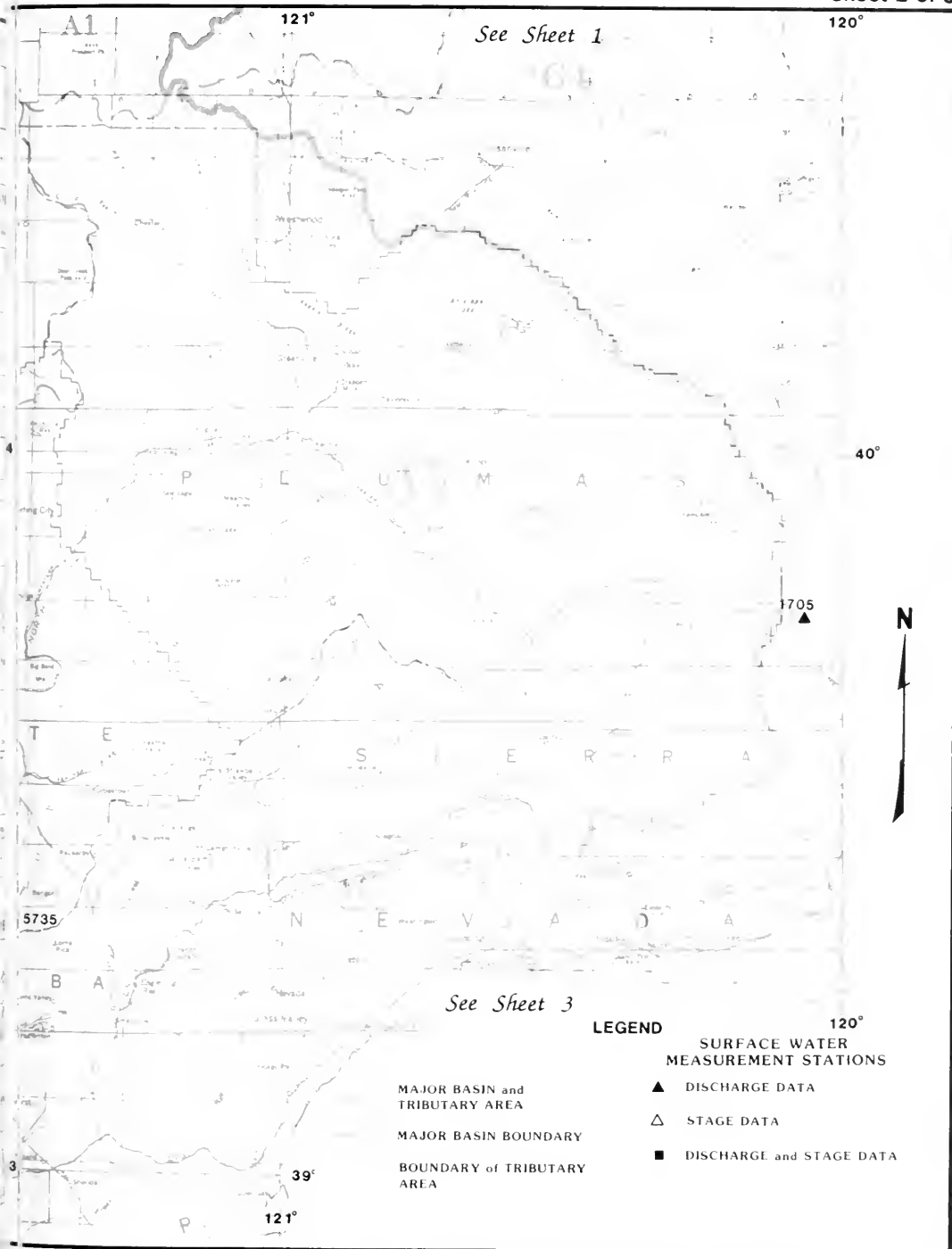
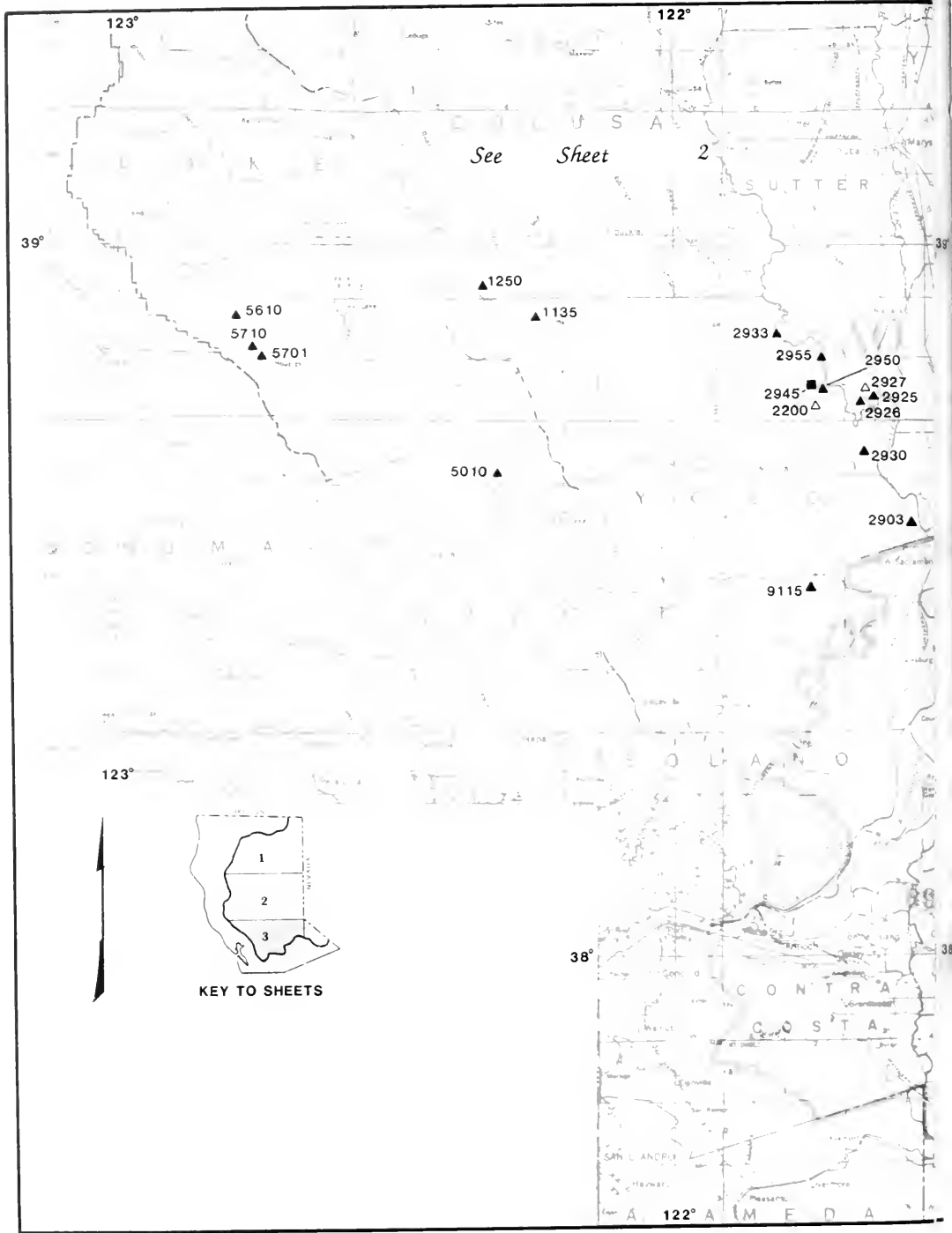


Figure 4 LOCATION OF SURFACE WATER MEASUREMENT STATIONS



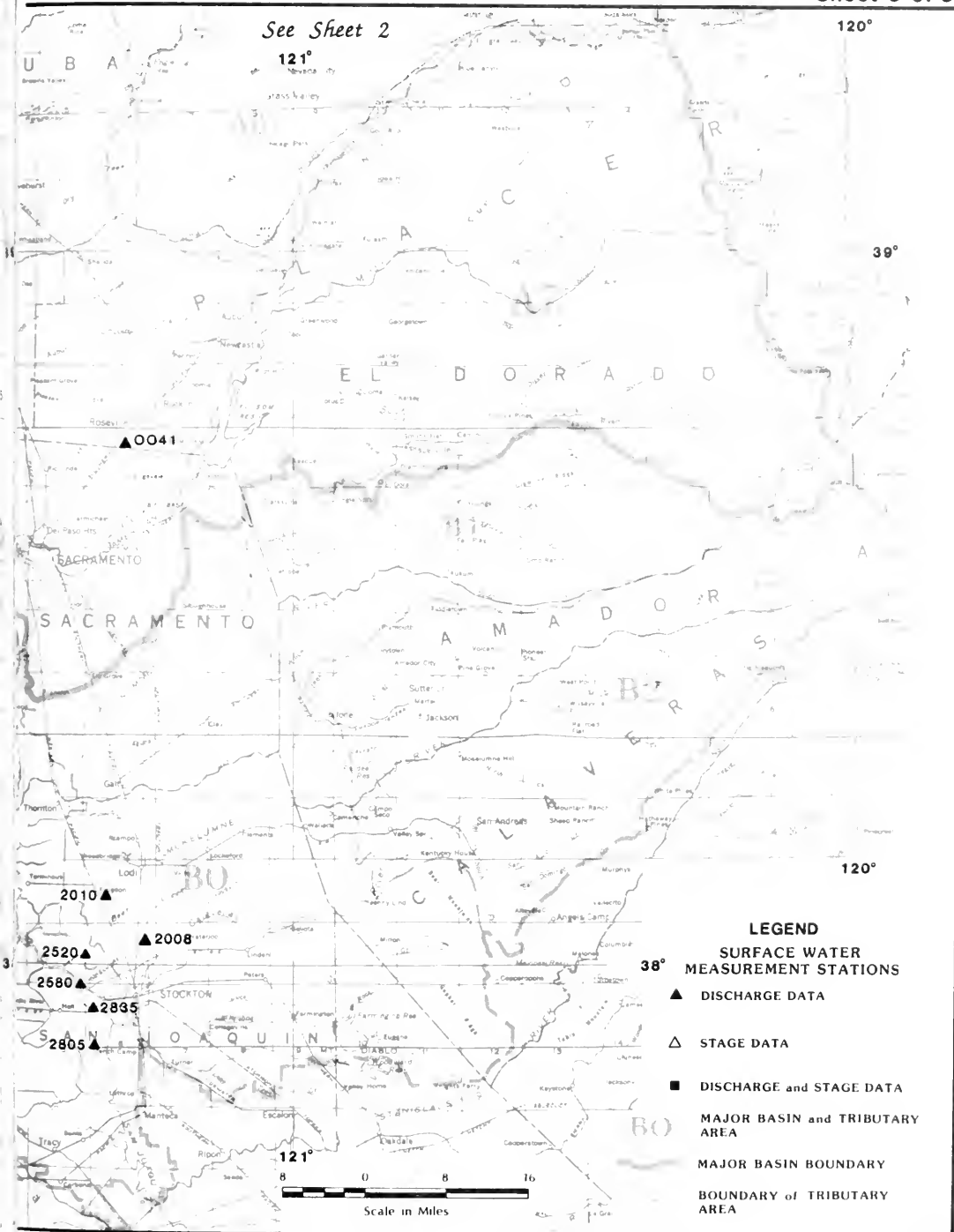


Figure 4. LOCATION OF SURFACE WATER MEASUREMENT STATIONS

TABLE B-1
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: A14100 PINE CREEK NEAR ALTURAS

LOCATION: LAT 41-25-54, LONG 120-26-18, T42N, R13E, SEC. 35, MD B&M MODOC COUNTY

DRAINAGE AREA: 23.9 SQ MILES HYDROLOGIC AREA: A-23.E2

WATER DAY	YEAR OCT	OCTOBER NOV	1984 through DEC	JAN	SEPTEMBER FEB	1985 MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1	21*	19	23	27	16E	18	32	35	41	25	17	13	1
2	20	21	23	27	16E	17	21	37	38	26	17	15	2
3	20	21	22	28	16E	16	20	37	37	25	17	13	3
4	20	19	20*	28	16E	16	20	36	36	24	16	13	4
5	19	19*	21	28	16E	16	20	38	35	23	16	13	5
6	20	19	20	25	16E	15	22	40	34	23	16	13	6
7	19	19	20	19*	16E	15	24	42	33	22	16	13	7
8	19	20	20	18	16E	15	24	42*	33	23	16	16	8
9	19	19	20	17	16E	15	26	42	33	22	16	14	9
10	19	19	28	16E	16E	16	27	41	35	21	16	13	10
11	21	20	31	16E	16E	17	27*	41	36	21*	15	13	11
12	20	20	27	16E	16E	16	26	41	36	20	15	13	12
13	21	20	22	16E	15	16*	28	40	36*	20	15	13	13
14	20	20	19	16E	15	16	30	39	36	19	15	13	14
15	19	20	26	16E	16	16	32	38	36	19	15	12	15
16	20	20	22	16E	16	16	32	37	36	19	15	12	16
17	20	19	25	16E	17	16	31	37	35	19	15	13	17
18	20	19	25	16E	20	16	32	37	35	18	15	12	18
19	20	19	25	16E	24	17	34	37	35	18	15	12	19
20	20	20	25	16E	22	16	35	37	34	18	14	12	20
21	20	20	27	16E	19	16	35	37	33	18	14	12	21
22	19	20	28	16E	20	16	35	37	32	19	14	12	22
23	19	21	28	16E	22	16	34	38	32	18	14	12	23
24	20	24	28	16E	24	16	33	39	31	18	14	12	24
25	19	22	28	16E	22	17	33	39	30	18	14	12	25
26	20	20	28	16E	18	16	31	41	30	18	13	12	26
27	19	24	28	16E	17	17	31	42	29	18	13	12	27
28	19	35	28	16E	17	16	32	44	28	17	13	11	28
29	20	29	28	16E	17	17	33	46	27	17	13	11	29
30	19	25	28	16E	22	22	34	44	26	18	13	11	30
31	19	27	16E			40		42		17	13		31
MONTHLY													
MEAN	19.7	21.1	24.8	18.4E	17.7E	17.1	29.1	39.5	33.6	20.0	14.8	12.6	
MAX	21	35	31	28	24E	40	35	46	41	26	17	16	
MIN	19	19	19	16E	15E	15	20	35	26	17	13	11	
ACFT	1210	1254	1527	1129E	984E	1051	1734	2426	1999	1232	912	750	
MEAN	INSTANTANEOUS		MAXIMUM FLOW,		1984-85		INSTANTANEOUS		MINIMUM FLOW,		1984-85		TOTAL
FLOW	DATE	TIME	FLOW	G.H.	DATE	TIME	FLOW	G.H.	ACRE FEET				
22.4	March 31	1930	66	1.95	September 27	2115	11	0.86	16208				

REMARKS:

Station located approximately 0.3 miles north of Pine Creek Blvd., 6.1 miles southeast of Alturas. Tributary to Pit River.

Stage-discharge relationship affected by ice at times.

Period of record for discharge is November 1957 to date.

Period of record for gage height is November 1947 to date.

The datum for this station from 1957 to present is 0.00, local.

FOR PERIOD OF RECORD BEGINNING 1957:

	FLOW	GAGE	DATE	TIME
INSTANTANEOUS MAXIMUM	CFS	HEIGHT		
	435	3.37	June 02, 1971	1600
AVERAGE/YEAR	Not available.			

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

= E and *.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: A18350 ASH CREEK AT ADIN
LOCATION: LAT 41-11-54, LONG 120-56-32, T39N, R09E, SEC. 21, MD B&M MODOC COUNTY
DRAINAGE AREA: 257.91 SQ MILES HYDROLOGIC AREA: A-23.D1

WATER YEAR OCTOBER 1984 through SEPTEMBER 1985

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15													15
DATA INSUFFICIENT TO COMPUTE DISCHARGE													
16													16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31

MONTHLY
MEAN
MAX
MIN
ACFT

MEAN FLOW NR	INSTANTANEOUS DATE	MAXIMUM FLOW TIME	1984-85 G.H.	INSTANTANEOUS DATE	MINIMUM FLOW TIME	1984-85 G.H.	TOTAL ACRE FEET NR
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REMARKS:

Station located 300 feet above State Highway 299 bridge in Adin. Tributary to Pit River.
Stage-discharge relationship affected by ice at times. Flow affected by upstream diversions.
Period of record for discharge is March 1937 to October 1957 (irrigation season only).
September 1957 to January 1984, January 1984 to date record not available.
Period of record for gage height is same as discharge.
The datum for this station from 1957 to present is 0.00 feet, local.

FOR PERIOD OF RECORD BEGINNING 1957:

INSTANTANEOUS AVERAGE/YEAR	MAXIMUM	FLOW CFS	GAUGE HEIGHT	DATE	TIME
		2950	14.69	January 24, 1970	0100
		Not available.			

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: A15145 BURNLEY CREEK AT PARK AVENUE NEAR BURNLEY
LOCATION: LAT 40-52-35, LONG 121-40-13, T35N, R03E, SEC. 19, MD B&M SHASTA COUNTY
DRAINAGE AREA: 87.7 SQ MILES HYDROLOGIC AREA: A-23.B2

WATER YEAR	OCTOBER	1984 through	SEPTEMBER	1985									
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1	22*	21	79	34	23	43	79	75	45	15	11	7.6	1
2	18	75	62	38	23	42	83	74	42	15	11	10	2
3	17	77	66	34	21	NR	88	72	38	14	10	11	3
4	17	38	64*	31	22	NR	92	67	34	14	9.4	9.7	4
5	16	31*	59	30	23	NR	106	64	32	14	9.3	9.4	5
6	16	42	51	30	21*	NR	115	63	30	14	9.1	9.6	6
7	15	52	46	33*	28	NR	126	62	29	13	8.9	14	7
8	16	63	45	34	94	NR	126	60	26	13	9.0	43	8
9	17	46	44	34	43	NR	130	59	24	13	9.0	31*	9
10	20	58	73	33	35	NR	134*	56	22	12*	9.0	19	10
11	50	117	98	31	33	NR	133	51	21*	12	9.0	16	11
12	27	177	81	30	33	NR	132	50	21	12	9.0	14	12
13	24	200	69	32	34	43	131	48*	19	12	8.9*	12	13
14	23	155	62	31	33	43	137	48	19	12	8.6	12	14
15	21	92	60	28	33	45	145	45	17	11	9.0	11	15
16	23	73	52	26	34	46	140	43	16	11	9.0	11	16
17	23	64	48	26	34	50	124	42	17	11	9.0	11	17
18	23	90	45	26	34	64	113	42	18	11	9.6	11	18
19	24	72	48	25	34	64	113	42	17	11	11	10	19
20	24	68	67	25	34	63	101	41	14	11	10	10	20
21	23	63	41	24	34	64	98	40	14	11	9.8	10	21
22	22	54	40	23	35	56	117	39	15	12	9.7	10	22
23	21	50	40	24	38	54	98	39	14	11	9.3	9.8	23
24	21	70	40	23	41	97	86	34	14	9.8	8.8	9.8	24
25	21	63	39	23	47	81	79	33	15	9.5	8.5	9.8	25
26	21	52	37	23	42	68	73	32	14	9.5	8.8	9.9	26
27	20	95	35	22	41	59	71	31	15	9.5	8.9	10	27
28	20	197	34	23	41	55	73	39	15	9.4	8.5	10	28
29	26	122	34	21	56	75	56	14	9.2	8.0	11	29	29
30	24	97	33	23	61	75	54	14	11	7.9	11	30	30
31	22		33	21	72		44		11	7.8		31	31
MONTHLY													
MEAN	21.8	82.5	52.4	27.8	35.3	NR	106	49.8	21.5	11.7	9.2	12.8	
MAX	50	200	98	38	94	NR	145	75	45	15	11	43	
MIN	15	21	33	21	21	NR	71	31	14	9.2	7.8	7.6	
ACFT	1343	4907	3223	1708	1960	NR	6333	3064	1279	722	565	761	
MEAN													
FLOW	INSTANTANEOUS MAXIMUM FLOW, 1984-85				INSTANTANEOUS MINIMUM FLOW, 1984-85				TOTAL				
	DATE	TIME	FLOW	G.H.	DATE	TIME	FLOW	G.H.	ACRE FEET				
NR	November 28	0345	246	4.81	July 29	0630	4.8	3.00	NR				

REMARKS:

Station located at Park Ave bridge. Tributary to Pit River.

Prior to October 1, 1974, the gage was located 300' above county road bridge, 0.8 miles southwest of Burnley as station A15150, Burnley Creek near Burnley.

Stage-discharge relationship affected by ice at times. Flow affected by upstream diversions.

Period of record for discharge is November 1974 to date. Period of record for gage height is same as discharge.

The datum for this station from 1974 to present is 0.00, local.

FOR PERIOD OF RECORD BEGINNING 1974:

FLOW	GAGE		
CFS	HEIGHT	DATE	TIME
INSTANTANEOUS MAXIMUM	3170	January 13, 1980	2030
AVERAGE/YEAR	Not available.		

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: A03545 NORTH FORK COTTONWOOD CREEK NEAR IGO
LOCATION: LAT 40-26-32, LONG 122-32-57, T30N, R06W, SEC. 21M, MD B&M SHASTA COUNTY
DRAINAGE AREA: 88.7 SQ MILES HYDROLOGIC AREA: A-17.B0

WATER YEAR	OCTOBER	1984 through	SEPTEMBER	1985										
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY	
1	24	15	232	94	85	77	115	37	19	3.9	7.1	0.6	1	
2	26	99	314	92	84	77	116	33	23	3.6	6.2	0.6	2	
3	26	43	302	89	83	76	111	34	17	2.8	5.3	1.8	3	
4	24	28	240	85*	85	75	102	32	14	2.1	3.8	2.5	4	
5	24	26	275	85	85	78	101	31	14	1.5	10	2.1	5	
6	24	59	233	85	85	86	98	28	13	1.0	4.1	2.3	6	
7	22	48	216	116	215	106	96	28	11	0.8	2.2	25	7	
8	21	90	205	98	406	90	94	NR	10	0.7	1.3	29	8	
9	21	54	205	146	159	85	92	NR	9.4	0.7	1.0	24	9	
10	20	403	292	115	124	93	89	NR	8.0	0.7	0.9	46	10	
11	21	433	252	109	108	91	86	NR	6.0	0.7	0.9	18	11	
12	20	1020	223	103	107	89	84	NR	5.0	0.7	0.9	14	12	
13	20	966	202	99	104*	86	81	NR	4.5	0.7	0.8	12	13	
14	20	399	188	98	100	86	78	NR	4.8	0.7	0.7	11	14	
15	20	348	187	99	98	84	77	NR	4.4	0.7	0.7	9.7	15	
16	21	380	170	96	96	82	76	17	4.1	0.7	0.7	9.2	16	
17	24	335	169	94	93	82	75	16	4.0	0.6	0.7	8.3	17	
18	21	300	143	88	90	81	73	17	7.7	0.6	0.7	8.4*	18	
19	21	218	132	88	90	82	72	15	5.4	0.6	0.7	8.1	19	
20	21	291	125	90	87	77	72	14	6.0	0.6	0.7	7.9	20	
21	20	226	122	87	87	74	83	13	5.0	0.6	0.7	8.2	21	
22	19	199	119	85	87	74	76	13	4.4	0.6	0.6	8.0	22	
23	18	256	116	85	85	73	71	12	7.9	1.6	0.6	7.6	23	
24	18	464	114	85	85	76	68	12	5.2	1.7	0.6	6.9	24	
25	18	238	112	85	81	73	65	12	3.2	1.0	0.6	7.5	25	
26	18	211	108	85	80	88	64	11	3.3	0.8	0.6	7.3	26	
27	18	665	106	85	79	107	50	17	3.5	0.7	0.6	7.2	27	
28	17	453*	104	85	77	144	43	20	3.4	0.7	0.6	7.8	28	
29	18	309	102	85		128	41	18	3.0	0.7	0.6	7.7	29	
30	17	260	99	85		114	40	14	2.9	9.1	0.6	7.8	30	
31	15*		96	85		114		14		9.9	0.6		31	
MONTHLY														
MEAN	20.5	295	178	93.7	109	88.6	79.6	NR	7.7	1.7	1.8	10.6		
MAX	26	1020	314	146	406	144	116	NR	23	9.9	10	46		
MIN	15	15	96	85	77	73	40	NR	2.9	0.6	0.6	0.6		
ACFT	1263	17530	10920	5764	6040	5451	4739	NR	460	103	111	628		

MEAN	INSTANTANEOUS	MAXIMUM FLOW, 1984-85	INSTANTANEOUS	MINIMUM FLOW, 1984-85	TOTAL
FLOW	DATE	TIME FLOW G.H.	DATE	TIME FLOW G.H.	ACRE FEET
NR	November 13	0330 1880 32.81	July 17	1500 0.6 29.23	NR

REMARKS:

Station located at county road bridge on Lower Gas Point Rd, 4.4 miles southeast of Ono.
Tributary to Sacramento River via Cottonwood Creek.

Flow affected by upstream diversion and releases from Rainbow Lake.

Period of record for discharge is 1956 to date.

Period of record for gage height is same as discharge.

The datum for this station from 1956 to present is 0.00, local.

FOR PERIOD OF RECORD BEGINNING 1956:

	FLOW	GAGE		
	CFS	HEIGHT	DATE	TIME
INSTANTANEOUS MAXIMUM	11000	39.45	December 22, 1964	0630
AVERAGE/YEAR	Not available.			

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: A00268 REEDS CREEK AT WILDER ROAD
LOCATION: LAT 40-09-53, LONG 122-16-27, T27N, R04W, SEC. 25, MD B&M TEHAMA COUNTY
DRAINAGE AREA: Not available HYDROLOGIC AREA: A-13.B0

WATER YEAR	OCT	NOV	1984 through	1985	APR	MAY	JUN	JUL	AUG	SEP	DAY
			DEC	JAN	FEB						
1			4.1	3.8	0.4	2.1	1.5	1.0	3.4		1
2			52	3.8	0.3	2.0	1.5	1.0	1.4		2
3			163*	3.8	0.3	2.0	1.5	0.8	0.9		3
4			NR	3.8*	0.3	2.2	1.2	0.7	0.7		4
5			NR	3.7	0.2	2.5	1.3	0.8	0.6		5
6			NR	3.6	0.2	3.2	1.3	0.9	0.4		6
7			NR	12	0.5	9.9	1.3	1.0	0.3		7
8	N	N	NR	6.1	22*	2.9	1.3	1.0	0.1	N	8
9			NR	5.5	2.1	2.4	1.4	1.1	0.1		9
10	O	O	NR	5.6	1.3	8.5	1.7	1.2	0.0	O	10
11			21*	3.2	1.2	4.0	1.8	1.3	0.0		11
12			14	2.9	1.2	2.5	1.5	1.0	0.0		12
13			9.2	2.6	1.2	2.6	1.3	1.0	0.0		13
14			7.3	2.5	1.4	2.6	1.3	0.8	0.0		14
15	R	R	7.9	2.2	1.5	2.5	1.3	0.5	0.0		15
16	E	E	6.9	2.0	1.5	2.5	1.3	0.7	0.0	F	16
17			5.5	2.2	1.5	2.5	1.5	0.9	0.0		17
18	C	C	4.9	1.9	1.6	2.6	1.5	1.1	0.0	L	18
19			4.8*	1.8	1.8	2.5	1.7	1.3	0.0		19
20	O	O	4.3	1.7	1.8*	2.5	1.4	0.8	0.0	O	20
21	R	R	4.1	1.5	1.7	2.5	2.0	0.6	0.0	W	21
22			3.8	1.5	1.6	2.5	1.9	0.6	0.0		22
23	D	D	3.8	1.2	1.5	2.6	1.3	0.6	0.0		23
24			3.8	1.2	1.7	2.9	1.2	0.5	0.0		24
25			3.8	1.1	1.7	2.9	1.2	0.5	0.0		25
26			4.3	1.0	1.5	98	1.2	0.7	0.0		26
27			4.4	0.9	1.6	28	1.3	1.0	0.0		27
28			4.2	0.8	1.8	6.2	1.2	1.4	0.0*		28
29			3.8	0.7		2.2	1.2	1.6	0.0		29
30			3.8	0.5		1.5	1.2	1.0	0.0		30
31			3.8	0.4		1.5		1.9			31
MONTHLY											
MEAN	NR	NR	NR	2.8	2.0	6.9	1.4	0.9	0.3	0.0	0.0
MAX	NR	NR	NR	12	22	98	2.0	1.9	3.4	0.0	0.0
MIN	NR	NR	NR	0.4	0.2	1.5	1.2	0.5	0.0	0.0	0.0
ACFT	NR	NR	NR	170	110	427	84	58	16	0.0	0.0

MEAN FLOW	INSTANTANEOUS FLOW	MAXIMUM FLOW	1984-85	INSTANTANEOUS FLOW	MINIMUM FLOW	1984-85	TOTAL
NR	DATE	TIME	G.H.	DATE	TIME	G.H.	ACRE FEET
	NR	March 26	2000	545	3.31**	NR	NR

REMARKS:

Station located 150 feet downstream from Wilder Rd bridge 2.5 miles southwest of Red Bluff. Tributary to Sacramento River.

Flow affected by upstream diversions.

Period of record for discharge is December 1, 1984 to date.
Period of record for gage height is same as discharge.

The datum for this station from 1984 to present is 0.00, local.

FOR PERIOD OF RECORD BEGINNING 1984:

INSTANTANEOUS FLOW	MAXIMUM FLOW	1984-85	INSTANTANEOUS FLOW	MINIMUM FLOW	1984-85	TOTAL
DATE	TIME	G.H.	DATE	TIME	G.H.	ACRE FEET
NR	March 26	2000	545	3.31	NR	NR
AVERAGE/YEAR			Not available.			

** Maximum flow for the 1984-85 water year may have occurred in December during the period of no record.

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: A03460 RED BANK CREEK NEAR RED BLUFF

LOCATION: LAT 40-05-25, LONG 122-24-45, T26N, R05W, SEC. 22M, MD B&M TEHAMA COUNTY

DRAINAGE AREA: 93.5 SQ MILES

HYDROLOGIC AREA: A-13.B0

WATER YEAR OCTOBER 1984 through SEPTEMBER 1985

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1		NR	25	6.9	6.4	5.7	7.2	2.5	1.2				1
2		NR	62	7.1	6.4	5.7	6.6	2.4	0.8				2
3		NR	217	6.9	6.4	5.6	6.2	2.1	0.6				3
4		NR	78	7.1*	6.3	5.4	5.6	1.6	0.7				4
5		NR	146	7.3	6.3	5.5	5.4	1.4	0.9				5
6		NR	74	7.3	6.3	6.0	5.4	1.4	1.0				6
7		NR	39	10	6.5	8.9	5.3	1.4	0.9				7
8	N	NR	23	9.9	170	8.9	5.1	1.5	1.3	N	N	N	8
9		NR	16	8.6	93	7.0	4.9	1.7	1.3				9
10	O	NR	190	8.5	28	7.9	4.7	1.8	1.0	O	O	O	10
11		NR	61*	7.8	17	16	4.6	1.7	0.5				11
12		NR	31	7.5	13	10	4.4	1.7	0.5				12
13		NR	16	7.3	11	7.5	4.3	1.7	0.4				13
14		NR	12	7.3	9.2	6.7	4.2	1.6	0.2				14
15	R	NR	10	7.2	8.4	6.3	4.0	1.3*	0.0				15
16	E	NR	8.1	7.1	7.8	5.6	4.0	1.2	0.0	F	F	F	16
17		41	7.5	6.9	7.8	5.5	4.0	1.0	0.0				17
18	C	77	7.2	6.9	7.6	5.2	4.0	1.0	0.0	L	L	L	18
19		7.2	7.0	6.9	7.6	4.9	3.8	1.0	0.0				19
20	O	12	6.6	6.9	7.2*	4.8	3.6	0.9	0.0	O	O	O	20
21	R	6.3	6.4	6.8	7.1	4.4	4.0	1.0	0.0	W	W	W	21
22		3.7	6.3	6.6	6.9	4.3	4.2	1.1	0.0				22
23	D	3.0	6.3	6.6	6.8	4.1	3.9	0.8	0.0				23
24		230	6.4	6.6	6.5	4.2	3.5	0.8	0.0				24
25		36	6.4	6.5	6.4	4.2	3.4	0.9	0.0				25
26		8.3	7.1	6.5	6.2	17	3.3	1.0	0.0				26
27		215	7.1	6.4	5.9	36	3.1	1.3	0.0				27
28		283*	6.8	6.6	5.9	65	3.0	1.3	0.0*				28
29		146	6.6	6.6		31*	2.9	1.0	0.0				29
30		56	6.7	6.5		13	2.8	0.9	0.0				30
31			6.9	6.5		8.3		1.3					31

MONTHLY

MEAN	NR	NR	35.8	7.2	17.3	10.7	4.4	1.4	0.4	0.0	0.0	0.0
MAX	NR	NR	217	10	170	65	7.2	2.5	1.3	0.0	0.0	0.0
MIN	NR	NR	6.3	6.4	5.9	4.1	2.8	0.8	0.0	0.0	0.0	0.0
ACFT	NR	NR	2200	444	960	656	261	84	22	0	0	0
MEAN	INSTANTANEOUS MAXIMUM FLOW, 1984-5					INSTANTANEOUS MINIMUM FLOW, 1984-5					TOTAL	
FLOW	DATE	TIME	FLOW	G.H.		DATE	TIME	FLOW	G.H.		ACRE FEET	
NR	November 27	1730	553	4.09 **		NR					NR	

REMARKS:

Station located on Briggs Rd bridge, 11 miles SW of Red Bluff. Tributary to Sacramento River.

Flow affected by upstream diversion.

Gage washed out 12/83, replaced 11/84 at same location and datum. However channel cross-section changed considerably.

Period of record for discharge is 1948 to 12/83, 11/84 to date.

Period of record for gage height is same as discharge.

The datum for this station from 1956 to present is 0.00, local.

FOR PERIOD OF RECORD BEGINNING 1948:

	FLOW	GAGE	DATE	TIME
	CFS	HEIGHT		
INSTANTANEOUS MAXIMUM	19900	12.44	Mon Feb 28, 1983	2200
AVERAGE/YEAR	Not Available			

** The reported maximum flow for the 1984-85 water year may only be a secondary peak.
Based on precipitation records, a higher peak (during the period of no record) may have occurred between November 11, 1984 to November 13, 1984.

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: A44180 MILL CREEK NEAR MINERAL

LOCATION: LAT 40-21-44, LONG 121-30-16, T29N, R4E, SEC. 23 MD B&M

TEHAMA COUNTY

DRAINAGE AREA: NOT AVAILABLE

HYDROLOGIC AREA: A-15.C2

WATER YEAR OCTOBER 1984 through SEPTEMBER 1985

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1								NR	61	NR	30	27	1
2								NR	58	NR	29	29	2
3								NR	61	NR	29	26	3
4								173	62	NR	30	26	4
5								164	64	NR	27	24	5
6								158	118	NR	26	25	6
7								145	138	NR	27	36	7
8	N	N	N	N	N	N	N	127	145	NR	27	91	8
9								132	145	NR	28	52	9
10	O	O	O	O	O	O	O	99	142	NR	27	44	10
11								87	142	NR	28	39	11
12								118	142	34*	27	41	12
13								101	139	33	27	38	13
14								101	134	33	27	39	14
15	R	R	R	R	R	R	R	137	132	33	27	36	15
16	E	E	E	E	E	E	E	142	127	32	27	35	16
17								142	125	32	27	35	17
18	C	C	C	C	C	C	C	118	125	32	28	36	18
19								103	120	33	28	35	19
20	O	O	O	O	O	O	O	120	111	32	28	34	20
21	R	R	R	R	R	R	R	93	107	34	27	33	21
22								99	103	32	27	32	22
23	D	D	D	D	D	D	D	101	84	31	27	31	23
24								97	64	31	26	31	24
25								87	47	31	26	31	25
26								71	43	32	26	30	26
27								56	38	33	26	30	27
28								62	37	32	26*	30	28
29								65	40	31	26	30	29
30								64	35	31	26	31	30
31								62		29	27		31

MONTHLY

MEAN								NR	96.3	NR	27.2	35.2
MAX								NR	145	NR	30	91
MIN								NR	35	NR	26	24
ACFT								NR	5730	NR	1674	2097

MEAN FLOW NR	INSTANTANEOUS DATE	MAXIMUM FLOW TIME	1984-85 FLOW NR	G.H.	INSTANTANEOUS DATE	MINIMUM FLOW TIME	1984-85 FLOW NR	G.H.	TOTAL ACRE FEET NR
					September 5	0015	24	01.89	

REMARKS:

Located downstream from the Highway 36 Bridge about 10 miles east of Mineral. Tributary to Sacramento River.

Stage-discharge relationship affected by ice at times.

Station was installed May 4, 1985.

Period of record for discharge is May 4, 1985 to date.

Period of record for gage height is the same as discharge.

The datum for this station from 1985 to present is 0.00, local.

FOR PERIOD OF RECORD BEGINNING 1985:

INSTANTANEOUS AVERAGE/YEAR	MAXIMUM	FLOW CFS	GAGE HEIGHT NR	DATE	TIME
			Not available.		

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: A02700 SACRAMENTO RIVER AT VINA BRIDGE

LOCATION: LAT 39-54-36, LONG 122-05-36, T24N, R02W, SEC. 28, MD B&M TEHAMA COUNTY

DRAINAGE AREA: Not available

HYDROLOGIC AREA: A-13.B0

WATER DAY	YEAR OCT	OCTOBER NOV	1984 through DEC	SEPTEMBER JAN	1985 FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1	8540	8260	15700	10300	8060	6890	7450	8390	8090	12000	10400	7670	1
2	8500	8460	14700	9290	8060	6910	7640	8570	8150	12200	10400	7760	2
3	8460	9730	20700	8790	8100	6880	8050	8540	7950	12400	10500	7790	3
4	8580	9370	21800	8690	8030	6930	7850	8540	7860	12200	10700	7560	4
5	8660	8770	21000	8560	8040	7100	7600	8580	7240	12300	10500	7150	5
6	8620	8900	21000	8560	7950	7280	7540	8640	7450	12300	10300	6770	6
7	8460	9280	20200	8760	8230	8380	7400	8560	7770	12400	10500	6960	7
8	7880	10000	19800	9330	19800	9280	7170	8570	8840	12500	10500	8120	8
9	7390	10400	19400	9010	15700	8150	6770	8700	9290	12700	10400	9070	9
10	6990	9900	22500	9510	11200	8500	6550	8630	9200	12900	10500	8250	10
11	8380	16600	31100	9020	10100	9620	6490	8440	9140	12200	10500	6860	11
12	8230	22100	23300	8670	9510	8510	6500*	8200	8950	12300	10500	6650	12
13	7610	30300	20900	8370	8380	7920	6990	8090	8900	12300	10600	NR	13
14	7460	24400	20500*	8290	7480	6690	7690	9680	9200	12200	10500	NR	14
15	7330	21200	19400	8290	7230	6640*	7770	12400	9190	12700	10500	NR	15
16	7470	23500	18700	8130	7140	6630	7660	12500	9200	12800	10700	NR	16
17	7880	23200	17100	8300	7000	6610	7610	11000	9090	12700	10800	NR	17
18	7730	23500	16700	8230	6900	6620	7540	7350	9590	12800	10700	NR	18
19	7570	22300	16000	8500	7220	6580	7360	8020	9730	13000	9350	NR	19
20	7680	20900	15400	8480	7580	6570	7360	8140	9680	13000	9270	NR	20
21	7540	23700	14000	8380	7460	6550	8110	8000	9670	13300	9190	NR	21
22	6980	20400	13000	8310	7380*	6540	8160	7710	10000	12900	9170	NR	22
23	6850	19600	11200	8250	7300	6520	7990	7600	10200	12500	9000	NR	23
24	6850	38000	11200	8300	7230	6520	7530	7490	10300	12100	8040	NR	24
25	6760	28400	11000	8150*	7180	6540	7220	8290	10300	10800	7830E	NR	25
26	6810	22200	10900	8250	7060	6640	6920	8330	9760	10300	NR	NR	26
27	7610	20000	11000	8200	6980	8130	6980	8420	10800	10200	NR	NR	27
28	7640	35300	10700	8160	6810	8370	7630	8190	11900	10100	NR	NR	28
29	7800	22000	10600	8160	8130	7950	8250	11800	10200	NR	NR	NR	29
30	7830*	17800*	10500	8150	7720	8010	7770	11900	10300	7590E	NR	NR	30
31	7880		10500	8000	7460		7810		10200	7610			31

MONTHLY

MEAN	7741	18950	16790	8561	8540	7349	7450	8626	9371	12030	NR	NR
MAX	8660	38000	31100	10300	19800	9620	8160	12500	11900	13300	NR	NR
MIN	6760	8260	10500	8000	6810	6520	6490	7350	7240	10100	NR	NR
ACFT	476000	1128000	1032000	526400	474300	451900	443300	530400	557600	739400	NR	NR

MEAN FLOW NR	INSTANTANEOUS DATE	MAXIMUM FLOW	1984-85 TIME	1984-85 FLOW G.H.	INSTANTANEOUS DATE	MINIMUM FLOW	1984-85 TIME	1984-85 FLOW G.H.	TOTAL ACRE FEET NR
	November 24	1515	50800	76.12	April 10	1800	6470	65.18	

REMARKS:

Station located 250 feet above Vina-Corning Highway bridge, 2.6 miles southwest of Vina.

Flow regulated by Shasta Dam since December 30, 1943. Approximately 190,000 acre-feet diverted from the river between Keswick and Vina in addition to diversions from the tributaries. Transbasin diversions from the Trinity River Whiskeytown Reservoir via Judge Frances Carr Powerplant began in April 1963.

The maximum discharge is for the main river channel and does not include water by-passing the station on the left bank.

Period of record for discharge is April 1945 to date.

Period of record for gage height is same as discharge.

The datum for this station from 1945 to present is 100.00, USED.

The datum for this station from 1945 to present is 97.15, USCGS.

FOR PERIOD OF RECORD BEGINNING 1945:

INSTANTANEOUS MAXIMUM AVERAGE/YEAR	FLOW CFS	GAUGE HEIGHT	DATE	TIME
	182000	91.27	March 1, 1983	1730
	Not available.			

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: A02630 SACRAMENTO RIVER AT HAMILTON CITY

LOCATION: LAT 39-45-06, LONG 121-59-48, T22N, R01W, SEC. 20, MD B&M BUTTE COUNTY

DRAINAGE AREA: 11,060 square miles (excluding Goose Lake Basin) HYDROLOGIC AREA: A-13.B0

WATER YEAR	OCTOBER	1984 through	SEPTEMBER	1985										
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY	
1	7660	7490	17100	10500	7890	6770	7500	6860	6270	9350	7800	5550	1	
2	7700	7630	15700	9530	7900	6760	7660	7010	6200	9600	7930	5660	2	
3	7640	8750	20700	8720	7860	6750	7970	7010	6200	9730	7890	5710	3	
4	7740	8760	22000	8630	7860	6790	7820	6900	6030	9620	8120	5660	4	
5	7840	8350	21400	8510	7840	6990	7460	6820	5600	9590	8070	5330	5	
6	7760	8430	21500	8500	7810	7190	7330	6990	5490	9670	7740	5030	6	
7	7760	8870	20700	8580	7970	7940	7270	6910	5710	9780	7930	5160	7	
8	7220	9430	20300	9120	16400	9080	7080	6980	6410	9940	7850	5970	8	
9	6800	10300	19800	8910	18200	8160	6570	7070	6970	10100	7750	7160	9	
10	6380	9470	22500	9320	11800	8160	6410	7030	6930	10400	7920	6920	10	
11	7230	14900	30600	8960	10100	9470	6180*	6960	6800	9640	7920	5650	11	
12	7740	21700	24100*	8600	9500	8560	5940	6630	6530	9750	7950	5430	12	
13	7030	28100	21600	8310	8540	8040	6270	6620	6460	9790	7910	5070	13	
14	6800	25200	20800	8180	7580	6910*	6930	7330	6580	9690	7960	5080	14	
15	6760	21500	20200	8220	7250	6530	7100	11000	6650	10200	7770	4720	15	
16	6780	22200	19200	8090	7090	6520	6900	10900	6560	10200	8080	4690	16	
17	7140	23800	18100	8170	6980	6520	6860	10400	6590	10200	8200	4730	17	
18	7120	22700	17600	8110	6870	6440	6760	6180	6840	10200	8300	4160	18	
19	6950	22500	17000	8310	6970	6430	6600	6590	7110	10500	7060	4350	19	
20	6980	20600	16000	8330	7380	6390	6350	6570	7060	10500	6830	4570	20	
21	6970	23500	14900	8250	7330	6260	7000	6450	7100	10800	6690	4530	21	
22	6520	20800	14000	8150	7250	6050	7130	6150	7260	10700	6620	4130	22	
23	6070	20000	11600	8160	7160	5850	6950	6090	7610	10400	6590	4030	23	
24	6050	34600	11400	8150*	7120	5900	6510	5830	7740	9780	5910	3980	24	
25	5910	31400	11200	8040	7070	6240	6150	6440	7720	8740	5530	4120	25	
26	5870	23200	11100	8070	6960*	6270	5840	6610	7640	8000	5220	4410	26	
27	6670	19400	11200	8080	6910	7900	5800	6670	7600	7800	5020	4460	27	
28	6820	35400	10900	8040	6730	8130	6220	6560	9180	7630	5030	4540	28	
29	6960	23700*	10700	8010		8140	6630	6530	9140	7740	5600	4580	29	
30	7120	18900	10600	8020		7780	6540	6070	9330	7780	5560	4650	30	
31	7130*		10600	7920		7610		6010		7790	5470		31	

MONTHLY

MEAN	7004	18720	17280	8467	8440	7178	6791	7038	6977	9536	7104	5001
MAX	7840	35400	30600	10500	18200	9470	7970	11000	9330	10800	8300	7160
MIN	5870	7490	10600	7920	6730	5850	5800	5830	5490	7630	5020	3980
ACFT	430700	1114000	1063000	520600	468700	441400	40410	432700	415200	586300	436800	297600

MEAN	INSTANTANEOUS	MAXIMUM FLOW, 1984-5	INSTANTANEOUS	MINIMUM FLOW, 1984-5	TOTAL
FLOW	DATE	TIME	CFS	G.B.	ACRE FEET
9131	November 24	2000	50000	38.39	September 25 0315 3800 28.29 6611100

REMARKS:

Station located at Gianella Bridge, State Highway 32, 1.0 mile northeast of Hamilton City.

Flow regulated by Shasta Dam since December 30, 1943. Approximately 950,000 acre-feet diverted from the river between Keswick and Hamilton City in addition to diversions from the tributaries. Transbasin diversions from the Trinity River Whiskeytown Reservoir via Judge Frances Carr Powerplant began in April 1963.

Prior to regulation by Shasta Lake, the Maximum discharge was 350,000 CFS at stage 22.60 ft on February 28, 1940. Zero of gage = 127.9, USED in 1940. The maximum discharges of record since February 1940, are for the main river channel and do not include water by-passing the station on the left bank. Period of record for discharge is Spring 1945 to date. Period of record for gage height is 1927 to date.

The datum for this station from 1927 to 1945 is 127.9, USED.
The datum for this station from 1945 to present is 100.0 USED and 96.5 USGS.

FOR PERIOD OF RECORD BEGINNING 1927:

	FLOW	GAGE	DATE	TIME
	CFS	HEIGHT		
INSTANTANEOUS MAXIMUM	176000	50.77	March 01, 1983	1845
AVERAGE/YEAR	Not Available			

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: A04242 MUD CREEK NEAR CHICO

LOCATION: LAT 39-47-02, LONG 121-53-06, T22N, R01E, SEC. 05, MD B&M BUTTE COUNTY

DRAINAGE AREA: 47.5 SQ MILES HYDROLOGIC AREA: A-13.B0

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1	0.0	0.0	38	5.9	2.3	3.3*	24	0.2				0.0	1
2	0.0*	0.0	442	5.6	2.2	3.4	19*	0.0				0.0	2
3	0.0	1.3	132	5.4	2.0	2.8	15	0.0				0.0	3
4	0.0	0.8	53	5.4	2.1	2.9	12	0.0				0.0*	4
5	0.0*	0.2	37	5.2	1.9	8.7	9.0	0.0				0.0	5
6	0.0	0.5	25	5.4	1.9	12	7.1	0.0				0.0	6
7	0.0	0.8	17	19	12	62	5.6	0.0				0.0	7
8	0.0	22	13	17	323	24	4.7	0.0	N	N	N	30	8
9	0.0	9.1	11	11	107	14	3.9	0.0				3.4	9
10	5.1	8.6	94	9.9	58	77	3.4	0.0	O	O	O	2.4*	10
11	9.9	210	50	8.8	40	69	2.9	0.0				0.1	11
12	0.2	182	32	8.1	29	30	2.5	0.0				0.0	12
13	0.0	338	22	7.4	23	21	2.0	0.0				0.0	13
14	0.0	36	17	7.0	18	16	2.0	0.0				0.0	14
15	0.0	15*	175	6.9	15	13	1.7	0.0				0.0	15
16	4.6	121	144	6.3	16	11	1.8	0.0	F	F	F	0.0	16
17	5.3*	103	51	3.6	14	8.7	2.1	0.0				0.0	17
18	0.7	41	36	3.2*	12	12	1.8	0.0	L	L	L	0.0	18
19	0.3	107	26	3.0	11	9.6	1.5	0.0				0.0	19
20	0.0	42	21	2.9	7.6*	8.1	1.3	0.0	O	O	O	0.0	20
21	0.0	24	15*	2.5	6.1	6.2	1.5	0.0	W	W	W	0.0	21
22	0.0	20	12	2.4	5.2	5.0	1.6	0.0				0.0	22
23	0.0	188	11	2.4	4.5	4.4	1.1	0.0				0.0	23
24	0.0	68	10	4.6	4.0	8.1	0.8	0.0				0.0	24
25	0.0	35	9.4	2.9	4.1	13	0.6	0.0				0.0	25
26	0.0	25	8.6	2.2	4.0	227	0.5	0.0				0.0	26
27	0.0	18	8.2	2.4	3.5	150	0.4	0.0				0.0	27
28	0.0	885	7.5	2.6	3.3	75	0.3	0.0				0.0	28
29	0.0	164	6.6	2.9		50	0.2	0.0				0.0	29
30	0.0	72	6.5	2.6		36	0.1	0.0				0.0	30
31	0.0		6.2	2.1		29		0.0					31

MONTHLY	MEAN	MAX	MIN	ACFT
0.8	91.2	49.6	5.7	26.2
9.9	885	442	19	323
0.0	0.0	6.2	2.1	1.9
52	5429	3049	350	1453
				2008
				259
				0
				0
				0
				0
				71

MEAN	INSTANTANEOUS	MAXIMUM FLOW, 1984-85	INSTANTANEOUS	MINIMUM FLOW, 1984-85	TOTAL
FLOW	DATE	TIME	FLOW	G.H.	ACRE FEET
17.5	November 28	0830	2440	06.38	October 1
					0015
					0.0
					00.36
					12671

REMARKS:

Station located 0.1 miles above Business route 99 bridge, 4.9 miles north of Chico. Tributary to Sacramento River via Big Chico Creek. Includes an undetermined amount of water from Big Chico Creek.

Period of record for discharge is January 1964 to date.

Period of record for gage height is same as discharge.

The datum for this station from 1964 to present is 0.00, local.

FOR PERIOD OF RECORD BEGINNING 1964:

INSTANTANEOUS	MAXIMUM	FLOW	GAUGE	DATE	TIME
AVERAGE/YEAR		CFS	HEIGHT		
		11500	11.00	March 30, 1974	0400
		Not available.			

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: A00928 MUD CREEK DIVERSION AT CHICO
LOCATION: LAT 39-45-42, LONG 121-48-00, T22N, R02E, SEC. 18, MD B&M BUTTE COUNTY
DRAINAGE AREA: 8.3 SQ MILES HYDROLOGIC AREA: A-13.B0

WATER YEAR	OCTOBER	1984 through	SEPTEMBER	1985										
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY	
1													1	
2													2	
3													3	
4													4	
5													5	
6													6	
7													7	
8	N	N	N	N	N	N	N	N	N	N	N	N	8	
9													9	
10	O	O	O	O	O	O	O	O	O	O	O	O	10	
11													11	
12													12	
13													13	
14													14	
15													15	
16	F	F	F	F	F	F	F	F	F	F	F	F	16	
17													17	
18	L	L	L	L	L	L	L	L	L	L	L	L	18	
19													19	
20	O	O	O	O	O	O	O	O	O	O	O	O	20	
21	W	W	W	W	W	W	W	W	W	W	W	W	21	
22													22	
23													23	
24													24	
25													25	
26													26	
27													27	
28													28	
29													29	
30													30	
31													31	
MONTHLY														
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
MAX	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
MIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
ACFT	0	0	0	0	0	0	0	0	0	0	0	0		
MEAN	INSTANTANEOUS MAXIMUM FLOW, 1984-85						INSTANTANEOUS MINIMUM FLOW, 1984-85						TOTAL	
FLOW	DATE						DATE						ACRE FEET	
0.0	NR						October 1 0015 0.0 7.07						0	

REMARKS:

Station located 0.4 miles above Wildwood Avenue bridge, 4.0 miles northeast of Chico.

This flow is diverted from Lindo Channel into Mud Creek during periods of high water. Crest of diversion weir is at gage height 8.38.

Period of record for discharge is November 1964 to date (instantaneous maximum flow is based on the period of record with the 1968 peak flow missing). Period of record for gage height is November 1964 to date.

The datum for this station from 1964 to present is 0.00, local.

FOR PERIOD OF RECORD BEGINNING 1964:

	FLOW	GAUGE		
	CFS	HEIGHT	DATE	TIME
INSTANTANEOUS MAXIMUM	5000	12.37	March 30, 1974	0345
AVERAGE/YEAR	Not available.			

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: A00615 LINDO CHANNEL NEAR CHICO

LOCATION: LAT 39-44-57, LONG 121-52-06, T22N, R01E, SEC. 21, MD B&M

BUTTE COUNTY

DRAINAGE AREA: Not available

HYDROLOGIC AREA: A-13.B0

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1	0.0	0.0	8.7	0.0	0.1	0.0	24		0.0	NR	0.0	NR	1
2	0.0	0.0	12	0.0	0.1	0.0	26		0.0	NR	0.0	NR	2
3	0.0	0.0	8.6	0.0	0.1	0.0	17		0.0	0.0	0.0	NR	3
4	0.0	0.0	0.4	0.0	0.0	0.0	9.9		0.0	0.0	0.0	NR	4
5	0.0	0.0	0.0	0.0	0.0	1.0	4.6		0.0	0.0	0.0	0.0	5
6	0.0	0.0	0.0	0.0	0.0	0.7	1.4		0.0	0.0	0.0	0.0	6
7	0.0	0.0	0.0	0.0	0.1	1.1	0.2		0.0	0.0	0.0	0.0	7
8	0.0	0.0	0.0	0.0	682	0.0	0.0	N	0.0	0.0	0.0	8.8	8
9	0.0	0.0	0.0	0.0	222	0.0	0.0		0.0	0.0	0.0	0.1	9
10	4.8	0.0	2.0	0.0	68	0.7	0.0	O	0.0	0.0	0.0	0.1	10
11	0.0	8.8	0.0	0.0	26	0.0	0.0		0.0	0.0	0.0	0.1	11
12	0.0	33	0.0	0.0	11	0.0	0.0		0.0	0.0	0.0	0.1	12
13	0.0	184	0.0	0.0	5.0	0.0	0.0		0.0	0.0	0.0	0.1	13
14	0.0	47	0.0	0.0	1.7	0.0	0.0		0.0	0.0	0.0	0.1	14
15	0.0	4.2*	21	0.0	0.1	0.0	0.0		0.0	0.0	0.0	0.0	15
16	0.3	9.2	8.4	0.0	0.0	0.0	0.0	F	0.0	0.0	0.0	0.0	16
17	0.0	5.2	0.2	0.1	0.0	0.0	0.0		0.0	0.0	0.0	0.0	17
18	0.0	1.5	0.0	0.1	0.0	0.0	0.0	L	0.0	0.0	0.0	0.0	18
19	0.0	0.0	0.0	0.1	0.0	0.0	0.0		0.0	0.0	0.0	0.0	19
20	0.0	2.5	0.0	0.1	0.0	0.0	0.0	O	0.0	0.0	0.0	0.0	20
21	0.0	2.7	0.0	0.1	0.0	0.0	0.0	W	0.0	0.0	0.0	NR	21
22	0.0	0.0	0.0	0.1	0.0	0.0	0.0		0.0	0.0	0.0	NR	22
23	0.0	0.0	0.0	0.1	0.0	0.0	0.0		0.0	0.0	0.0	NR	23
24	0.0	133	0.0	0.1	0.0	0.0	0.0		0.0	0.0	NR	NR	24
25	0.0	61	0.0	0.1	0.0	0.0	0.0		0.0	0.0	NR	NR	25
26	0.0	14	0.0	0.1	0.0	11	0.0		0.0	0.0	NR	NR	26
27	0.0	76	0.0	0.1	0.0	10	0.0		0.0	0.0	NR	NR	27
28	0.0	264	0.0	0.1	0.0	9.1	0.0		NR	0.0	NR	NR	28
29	0.0	73	0.0	0.1		6.0*	0.0		NR	0.0	NR	NR	29
30	0.0	25	0.0	0.1		5.9	0.0		NR	0.0	NR	NR	30
31	0.0		0.0	0.1		12				0.0	NR		31

MONTHLY

MEAN	0.2	31.5	2.0	0.0	36.3	1.9	2.8	0.0	NR	NR	NR	NR
MAX	4.8	264	21	0.1	682	12	26	0.0	NR	NR	NR	NR
MIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR
ACFT	10	1873	122	3	2016	114	165	0	NR	NR	NR	NR

MEAN	INSTANTANEOUS	MAXIMUM FLOW, 1984-85	INSTANTANEOUS	MINIMUM FLOW, 1984-85	TOTAL
FLOW	DATE	TIME	FLOW	DATE	ACRE FEET
NR	February 08	0930	1580	October 1	0015
			6.32		0.0
					0.51
					NR

REMARKS:

Station located at the right abutment of the Cossick Avenue bridge, 2.25 miles northwest of Chico Post Office. Tributary to Sacramento River via Big Chico Creek.

Flow affected by upstream diversion.

Station A00600 was destroyed on December 5, 1972. Station A00615 was constructed about 3.25 miles upstream on December 20, 1972.

Period of record for discharge is December 1972 to date.

Period of record for gage height is same as discharge.

The datum for this station from 1972 to present is 170.00, USED.

FOR PERIOD OF RECORD BEGINNING 1972:

FLOW	GAGE	DATE	TIME
CFS	HEIGHT		
INSTANTANEOUS MAXIMUM**	3840	March 29, 1974	1830
AVERAGE/YEAR	Not available.		

** Instantaneous maximum gage height was recorded on March 1, 1983 (0545) as 10.40 feet with a calculated flow of 3830 cfs.

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: A04280 LITTLE CHICO CREEK NEAR CHICO
LOCATION: LAT 39-44-06, LONG 121-46-06, T22N, R02E, SEC. 29, MD B&M BUTTE COUNTY
DRAINAGE AREA: 25.4 SQ MILES HYDROLOGIC AREA: A-07-D0

WATER YEAR	OCTOBER	NOV	1984 through	SEPTEMBER	1985										
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY		
1	2.8	1.3	23	6.9	4.7	7.1*	28	3.0	1.3			0.0	1		
2	1.2	5.4	22	6.7	4.7	6.9	23*	2.8	1.4			0.0	2		
3	1.0	5.2	35	6.4	4.7	6.3	19	2.6	1.3			0.0	3		
4	1.1	2.0	23	6.1	4.8	6.5	16	2.6	0.9			0.0*	4		
5	1.3*	1.6	21	5.8	4.7	7.3	13	2.5	1.0			0.0	5		
6	1.1	2.2	16	5.8	4.7	9.9	12	2.4	0.7			0.0	6		
7	0.8	2.2	13	14	33	39	9.8	2.5	0.4			0.0	7		
8	0.7	15	12	12	241	20	9.5	2.3	0.5	N	N	9.8	8		
9	0.7	6.6	11	9.8	83	15	8.2	2.3	0.3			13	9		
10	1.9	3.3	30	8.6	48	29	7.5	2.4	0.2	O	O	5.5*	10		
11	10	53	31	8.1	37	28	6.8	3.0	0.1			2.1	11		
12	3.2	44	26	7.7	30	22	6.2	2.8	0.0			1.1	12		
13	1.8	71	22	7.3	25	17	5.5	2.6	0.1			0.7	13		
14	1.6	24*	18	7.1	22	15	5.0	2.2	0.0			0.7	14		
15	1.5	12	67	7.1	19	13	4.7	2.1	0.0			0.7	15		
16	3.7	33	59	6.4	17	12	4.7	2.0*	0.0	F	F	0.6	16		
17	6.3	25	38	6.4	15	10	5.0	2.2	0.0			0.7	17		
18	3.0	29	31	6.4*	13	13	4.8	2.3	0.0	L	L	1.0	18		
19	2.5	16	25	5.9	12	11	5.0	2.1	0.0			0.8	19		
20	2.3	30	20	5.8	12*	9.0	4.7	1.8	0.0	O	O	0.8	20		
21	2.1	37	16*	5.8	11	8.1	5.0	1.5	0.0	W	W	0.8	21		
22	1.8	20	14	5.6	9.8	7.1	4.9	1.3	0.0			0.7	22		
23	1.5	13	12	5.2	8.8	6.4	4.4	1.1	0.0			0.5	23		
24	1.5	153	12	5.2	8.2	10	3.9	1.1	0.0			0.5	24		
25	1.3	44	11	5.2	8.2	12	3.5	1.1	0.0			0.4	25		
26	1.2	27	10	5.6	7.5	73	3.4	1.2	0.0			0.5	26		
27	1.5	116	9.2	5.2	7.7	84	3.3	1.4	0.0			0.6	27		
28	1.4	80	9.0	5.7	7.1	67	3.0	1.5	0.0			1.0	28		
29	2.0	42	8.4	5.4		49	2.8	1.6	0.0			1.2	29		
30	2.3	31	7.7	5.2		39	3.0	1.4	0.0			1.5	30		
31	1.7		7.4	4.8		33		1.3					31		
MONTHLY															
MEAN	2.2	31.5	21.3	6.7	25.1	22.1	7.9	2.0	0.3	0.0	0.0	1.5			
MAX	10	153	67	14	241	84	28	3.0	1.4	0.0	0.0	13			
MIN	0.7	1.3	7.4	4.8	4.7	6.3	2.8	1.1	0.0	0.0	0.0	0.0			
ACFT	132	1874	1308	415	1396	1360	467	125	16	0	0	90			
MEAN	INSTANTANEOUS	MAXIMUM FLOW, 1984-85	INSTANTANEOUS	MINIMUM FLOW, 1984-85	TOTAL										
FLOW	DATE	TIME	FLOW	G.H.	ACRE FEET										
9.9	February 08	0815	478	2.93	7183	June 12	0200	0.0	0.15						

REMARKS:

Station located above diversion dam 500 feet south of Stilson Road, 3.6 miles east of Chico.
Tributary to Sacramento River.

During periods of high water, flow is diverted via Little Chico Diversion, into Butte Creek.
Discharge listed does not include this diversion.

Period of record for discharge is January 1959 to date.
Period of record for gage height is December 1958 to date.

The datum for this station from 1958 to present is 296.00, USED.

FOR PERIOD OF RECORD BEGINNING 1958:

INSTANTANEOUS MAXIMUM	FLOW	GAGE	DATE	TIME
AVERAGE/YEAR	1790E	HEIGHT	December 21, 1964	1840
	Not available			

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: A04910 LITTLE CHICO CREEK DIVERSION NEAR CHICO
LOCATION: LAT 39-44-00, LONG 121-46-18, T22N, R02E, SEC. 29, MD B&M BUTTE COUNTY
DRAINAGE AREA: Not available HYDROLOGIC AREA: A-07.D0

WATER YEAR	OCTOBER	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8	N	N	N	N	N	N	N	N	N	N	N	N	8
9													9
10	O	O	O	O	O	O	O	O	O	O	O	O	10
11													11
12													12
13													13
14													14
15													15
16	F	F	F	F	F	F	F	F	F	F	F	F	16
17													17
18	L	L	L	L	L	L	L	L	L	L	L	L	18
19													19
20	O	O	O	O	O	O	O	O	O	O	O	O	20
21	W	W	W	W	W	W	W	W	W	W	W	W	21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31

MONTHLY													
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAX	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ACFT	0	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	INSTANTANEOUS MAXIMUM FLOW, 1984-85						INSTANTANEOUS MINIMUM FLOW, 1984-85						TOTAL
FLOW	DATE	TIME	FLOW	G.H.	DATE	TIME	FLOW	G.H.	ACRE	FEET			
0.0			Not applicable		OCTOBER 01	0015	0.0	1.77			0		

REMARKS:

See Little Chico Creek near Chico for records of stage and location.

This is flow diverted from Little Chico Creek, into Butte Creek during periods of high water.

Period of record for discharge is January 1959 to date.

Period of record for gage height is same as discharge.

The datum for this station is 296.00, USED.

FOR PERIOD OF RECORD BEGINNING 1958:

		FLOW	GAGE	DATE	TIME
		CFS	HEIGHT		
INSTANTANEOUS MAXIMUM	2450	3.99	March 29, 1974	2015	
AVERAGE/YEAR	Not available				

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: A04250 BIG CHICO CREEK AT CHICO

LOCATION: LAT 39-43-30, LONG 121-52-06, T22N, R01E, SEC. 27, MD B&M BUTTE COUNTY

DRAINAGE AREA: Not available HYDROLOGIC AREA: A-13.B0

WATER YEAR	OCT	NOV	1984 through	1985	SEPTEMBER	1985									
DAY			DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY		
1	19	NR	122	44	33	45*	155	28	14	2.5	4.8	2.8	1		
2	16	NR	107	43	33	44	154*	28	15	2.3	2.0	3.6	2		
3	15	NR	108	42	33	43	140	27	15	3.5	2.7	11	3		
4	14	NR	91	41	33	44	124	27	14	3.3	2.3	5.9	4		
5	14*	NR	85	39	33	51	112	26	13	2.1	1.9	6.0	5		
6	14	NR	76	39	32	53	101	26	12	1.8	1.9	6.3	6		
7	NR	NR	69	52	47	79	91	25	11	1.5	1.8	7.8	7		
8	NR	NR	64	60	506	64	82	24	11	1.6	3.5*	44	8		
9	NR	NR	59	52	333	59	75	24	11	1.4	0.2	57	9		
10	NR	NR	79	45	202	78	71	23	9.3	1.4	1.0	41*	10		
11	NR	NR	102	43	152	89	67	23	9.1	3.0	0.9	27	11		
12	NR	NR	105	42	126	94	60	22	7.8	2.6	1.2	20	12		
13	NR	NR	97	40	112	95	55	21	7.8	1.5	1.7	17	13		
14	NR	NR	87	39	102	94	52	21	5.8	1.1	1.9	15	14		
15	NR	59*	114	39	96	92	49	21	5.9	1.1*	3.7	14	15		
16	NR	116	109	38	91	87	48	21*	5.3	1.1	1.1	13	16		
17	NR	113	88	37	86	83	47	20	5.2	1.0	2.4	13	17		
18	NR	111	81	36*	81	83	46	20	5.0	2.9	3.9	13	18		
19	NR	98	74	35	76	79	46	19	4.8	0.6	3.7	12	19		
20	NR	100	69	35	72*	73	43	18	6.3	1.1	3.4	12	20		
21	NR	118	64*	34	67	69	43	17	4.3	2.1	3.1	11	21		
22	NR	96	60	33	62	65	43	16	4.9	3.3	4.5	10	22		
23	NR	82	56	33	58	61	39	13	5.0	3.2	1.1	9.9	23		
24	NR	250	54	32	54	72	37	15	4.7	1.8	2.2	9.6	24		
25	NR	196	55	32	53	86	35	15	4.0	3.0	1.9	9.2	25		
26	NR	134	54	33	51	114	34	14	3.5	0.7	2.0	8.7	26		
27	NR	185	53	33	48	127	33	13	4.7	1.6	1.9	9.2	27		
28	NR	366	51	35	47	131	32	14	3.5	1.9	1.7	10	28		
29	NR	212	48	37	121	121	31	16	2.9	1.9	4.0	10	29		
30	NR	152	46	34	123	29	17	1.9	2.8	3.2	9.5	30			
31	NR		44	33	137		15		3.1	3.1			31		

MONTHLY															
MEAN	NR	NR	76.5	39.0	97.1	81.8	65.8	20.3	7.6	2.0	2.4	14.6			
MAX	NR	NR	122	60	506	137	155	28	15	3.5	4.8	57			
MIN	NR	NR	44	32	32	43	29	13	1.9	0.6	0.2	2.8			
ACFT	NR	NR	4703	2400	5393	5028	3915	1248	452	125	148	870			

MEAN	INSTANTANEOUS	MAXIMUM FLOW, 1984-85	INSTANTANEOUS	MINIMUM FLOW, 1984-85	TOTAL
FLOW	DATE	TIME FLOW G.H.	DATE	TIME FLOW G.H.	ACRE FEET
NR	February 08	1045 781 7.26	July 03	1700 0.0 3.41	NR

REMARKS:

Station located 50 feet above Rose Avenue Highway bridge, immediately west of Chico.
Tributary to Sacramento River.

Flow affected by upstream diversion.

Period of record for discharge is January 1956 to date (instantaneous maximum flow available from October 1961 to date). Period of record for gage height is January 1956 to date.

The datum for this station from 1956 to present is 167.88, USED.

FOR PERIOD OF RECORD BEGINNING 1962:

INSTANTANEOUS	MAXIMUM	FLOW	GAUGE	DATE	TIME
AVERAGE/YEAR		CFS	HEIGHT		
		2520E	12.83	January 31, 1963	2110
		Not available			

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: A02570 SACRAMENTO RIVER AT ORD FERRY

LOCATION: LAT 39-37-42, LONG 121-59-30, T21N, R01W, SEC. 19, MD B&M GLENN COUNTY

DRAINAGE AREA: 12480 square miles (excluding Goose Lake Basin) HYDROLOGIC AREA: A-07.D0

WATER YEAR	OCTOBER	1984 through	SEPTEMBER	1985									
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1	7840	7700	19600	11100	8280	7020	7980	7000	6440	9470	8090	5790	1
2	7980	7810	17800	10500	8330	7000	8050	7230	6420	9640	8180	5890	2
3	7900	8740	22000	9540	8260	7030	8300	7270	6510	9790	8220	5950	3
4	7930	9150	24000	9360	8240	7080	8270	7180	6280	9790	8390	5990	4
5	8050	8760	22900	9200	8210	7290	7940	7130	5980	9700	8410	5680	5
6	8030	8770	22400	9150	8190	7530	7760	7240	5650	9810	8150	5410	6
7	8070	9040	21500	9180	8290	8040	7630	7190	5940	9850	8220	5380	7
8	7590	9610	20900	9620	13700	9200	7530	7210	6360	10100	8180	6040	8
9	7190	10600	20200	9610	20400	8680	7060	7290	7110	10200	8110	7370	9
10	6780	10000	22300	9750	12700	8420	6780	7320	7130	10400	8240	7590	10
11	7170	13100	30200	9650	10800	9890	6630*	7320	6970	9940	8220	6250	11
12	8150	21100	26000	9310	10000	9250	6300	6960	6730	9920	8290	5910	12
13	7370	26500	22700*	8900	9270	8650	6510	6910	6650	9920	8240	5540	13
14	7100	26700	21700	8770	8220	7670*	7110	6870	6670	9920	8350	5490	14
15	7040	22100	21600	8780	7740	7090	7370	10600	6840	10200	8150	5220	15
16	7030	21400	20500	8680	7530	7060	7230	10700	6720	10300	8370	5030	16
17	7390	24600	19400	8620	7400	7000	7220	10900	6830	10500	8560	5140	17
18	7440	22400	18200	8720	7260	6910	7080	7060	6890	10300	8720	4650	18
19	7280	23100	17400	8770	7200	6920	6930	6870	7300	10600	7730	4580	19
20	7230	20700	17000	8830	7620	6840	6670	6870	7230	10600	7200	4890	20
21	7240	23600	15500	8780	7610	6710	7120	6780	7300	10800	7100	4880	21
22	6970	21200	14700	8660	7520	6510	7390	6490	7350	10900	6920	4570	22
23	6450	20100	12800	8650	7400	6310	7320	6420	7750	10700	6970	4330	23
24	6300	30900	12300	8620	7390	6300	6870	6170	7910	9950	6390	4330	24
25	6210	36800	12100	8580	7280	6570	6540	6510	7880	9330	5920	4350	25
26	6170	24400	11800	8480	7170*	6710	6190	6820	8060	8320	5600	4690	26
27	6740	20000	11800	8520	7130	8420	6100	6840	7440	8090	5400	4730	27
28	7070	34600	11700	8490	7000	8500	6420	6820	9110	7920	5250	4790	28
29	7170	17100	11400	8420*		8620	6830	6780	9210	8040	5740	4860	29
30	7380	16100*	11300	8430		8340	6760	6390	9420	8130	5880	4980	30
31	7420*		11200	8360		8090		6270		8100	5750		31

MONTHLY

MEAN	7280	18560	18220	9033	8791	7602	7130	7271	7136	9717	7450	5343
MAX	8150	36800	30200	11100	20400	9890	8300	10900	9420	10900	8720	7590
MIN	6170	7700	11200	8360	7000	6300	6100	6170	5650	7920	5250	4330
ACFT	447600	104000	112000	555400	488200	467400	424200	447100	424600	597500	458100	318000

MEAN	INSTANTANEOUS	MAXIMUM FLOW, 1984-5	INSTANTANEOUS	MINIMUM FLOW, 1984-5	TOTAL
FLOW	DATE	TIME FLOW G.H.	DATE	TIME FLOW G.H.	ACRE FEET
9466	November 25	0015 50100 57.08	September 25	0815 4150 45.63	6852100

REMARKS:

Station located 0.1 miles below Ord Ferry.

Flow regulated by Shasta Dam since December 30, 1943. Approximately 980,000 acre-feet diverted from the river between Keswick and Ord Ferry in addition to diversions from the tributaries. Transbasin diversions from the Trinity River Whiskeytown Reservoir via Judge Frances Carr Powerplant began in April 1963.

Period of record for discharge is January 1948 to date. Period of record for gage height is 1921 to May 1927 (flood season only), February 1937 to May 1937, October 1937 to May 1939, November 1939 to May 1941, November 1941 to date.

The datum for this station from 1937 to 1960 is 0.00, USED.
The datum for this station from 1960 to present is 50.00, USED.

FOR PERIOD OF RECORD BEGINNING 1921:

	FLOW	GAGE		
	CFS	HEIGHT	DATE	TIME
INSTANTANEOUS MAXIMUM **	151000	69.19	March 2, 1983	0715
AVERAGE/YEAR	Not available			

** Prior to regulation by Shasta Lake, the maximum discharge was 370,000 CFS at stage 121.70 ft on February 28, 1940. Records of flows in excess of 70,000 CFS are not reliable due to an undetermined amount of water by-passing the station via Butte Basin.

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: A02986 MOULTON WEIR SPILL TO BUTTE BASIN NEAR COLUSA
LOCATION: LAT 39-20-18, LONG 122-01-18, T17N, R02W, SEC. 12, MD B&M COLUSA COUNTY
DRAINAGE AREA: Not available HYDROLOGIC AREA: A-07.D0

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8	N	N	N	N	N	N	N	N	N	N	N	N	8
9													9
10	O	O	O	O	O	O	O	O	O	O	O	O	10
11													11
12													12
13													13
14													14
15													15
16	F	F	F	F	F	F	F	F	F	F	F	F	16
17													17
18	L	L	L	L	L	L	L	L	L	L	L	L	18
19													19
20	O	O	O	O	O	O	O	O	O	O	O	O	20
21	W	W	W	W	W	W	W	W	W	W	W	W	21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
MONTHLY													
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MAX	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
ACFT	0	0	0	0	0	0	0	0	0	0	0	0	
MEAN	INSTANTANEOUS MAXIMUM FLOW, 1984-85						INSTANTANEOUS MINIMUM FLOW, 1984-85						TOTAL
FLOW	DATE	TIME	FLOW	G.H.	DATE	TIME	FLOW	G.H.	ACRE FEET				
0.0			Not Applicable		October 01	0015	0.0	72.69	0				

REMARKS:

Station located west of south end of weir, 4.6 miles south of Princeton.

Elevation of weir crest is 76.75 feet USED datum; length of crest is 500 feet.

Period of record for discharge is January 1940 to date (flood season only).

Gage height records are available as station A02445, Sacramento River at Moulton Weir.

The datum for this station from 1935 to present is 0.00, USED.

FOR PERIOD OF RECORD BEGINNING 1940:

INSTANTANEOUS MAXIMUM	FLOW	GAGE	DATE	TIME
AVERAGE/YEAR	37300	HEIGHT	March 02, 1983	2045
	Not available.			

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: A02981 COLUSA WEIR SPILL BUTTE BASIN
LOCATION: LAT 39-14-12, LONG 121-59-38, T16N, R01W, SEC. 17, MD B&M COLUSA COUNTY
DRAINAGE AREA: Not available HYDROLOGIC AREA: A-07.D0

WATER YEAR	OCTOBER 1984	through	SEPTEMBER 1985											
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY	
1		0.0											1	
2		0.0											2	
3		0.0											3	
4		0.0											4	
5		0.0											5	
6		0.0											6	
7		0.0											7	
8	N	0.0	N	N	N	N	N	N	N	N	N	N	8	
9		0.0											9	
10	O	0.0	O	O	O	O	O	O	O	O	O	O	10	
11		0.0											11	
12		0.0											12	
13		0.0											13	
14		0.0											14	
15		0.0											15	
16	F	0.0	F	F	F	F	F	F	F	F	F	F	16	
17		0.0											17	
18	L	0.0	L	L	L	L	L	L	L	L	L	L	18	
19		0.0											19	
20	O	0.0	O	O	O	O	O	O	O	O	O	O	20	
21	W	0.0	W	W	W	W	W	W	W	W	W	W	21	
22		0.0											22	
23		0.0											23	
24		0.0											24	
25		5190											25	
26		240											26	
27		0.0											27	
28		3.0											28	
29		1320											29	
30		0.0											30	
31													31	
MONTHLY														
MEAN	0.0	225	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
MAX	0.0	5190	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
MIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
ACFT	0	13390	0	0	0	0	0	0	0	0	0	0		
PERIOD OF RECORD BEGINNING 1940:														
MEAN	INSTANTANEOUS	MAXIMUM FLOW, 1984-85					INSTANTANEOUS	MINIMUM FLOW, 1984-85					TOTAL	
FLOW	DATE	TIME	FLOW	G.H.			DATE	TIME	FLOW	G.H.			ACRE FEET	
18.5	November 25	1245	9230	63.41			October 1	0015	0.0	60.38			13390	

REMARKS:

Station located at north end of weir, 2.0 miles north of Colusa.
Elevation of weir crest is 61.80 ft USED datum; length of crest is 1,650 feet.
Riparian growth and channel improvements were made in front of weir March 1982.
Period of record for discharge is January 1940 to date.
Gage height records are available as station A02430, Sacramento River at Colusa Weir.
Highest stage recorded beginning 1940 was 70.6 feet on March 1, 1940.
The datum for this station from 1935 to present is 0.0, USED.

FOR PERIOD OF RECORD BEGINNING 1940:

INSTANTANEOUS MAXIMUM	FLOW	GAGE	DATE	TIME
AVERAGE/YEAR	CFS	HEIGHT	March 04, 1983	0530
	72200	68.96		
	Not available			

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: A02967 BUTTE SLOUGH at OUTFALL GATES
LOCATION: LAT 39-11-44, LONG 121-56-04, T16N, R1E, SEC. 35, MD B&M SUTTER COUNTY
DRAINAGE AREA: Not Available HYDROLOGIC AREA: A-07.D0

WATER YEAR	OCTOBER 1984	through	SEPTEMBER 1985										
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15													15
N O R E C O R D													
16													16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31

MONTHLY
MEAN
MAX
MIN
ACFT

MEAN	INSTANTANEOUS	MAXIMUM FLOW, 1984-85	INSTANTANEOUS	MINIMUM FLOW, 1984-85	TOTAL
FLOW	DATE	TIME FLOW G.H.	DATE	TIME FLOW G.H.	ACRE FEET
NR		NR		NR	NR

REMARKS:

Station located 4 miles east of Colusa, 3.7 miles north of Meridian. Tributary to the Sacramento River.

Flow regulated by gravity culverts. During the summer months these flows, together with the flow of Butte Slough near Meridian (A02972), and Wadsworth Canal near Sutter (A05929) are made up almost entirely of return waters from lands irrigated by Feather River diversions. Headwalls on the culverts were rebuilt on October 17, 1985.

Period of record for discharge is June 1923 to October 1938 (irrigation season only), January 1939 to date. Period of record for gage height is June 1924 to date.

The datum for this station is 0.00 feet, USED.

FOR PERIOD OF RECORD BEGINNING 1939:

	GAGE			
	HEIGHT	DATE		TIME
INSTANTANEOUS	MAXIMUM			
AVERAGE/YEAR		Not available.		
		Not available		

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: A02960 TISDALE WEIR SPILL TO SUTTER BYPASS
LOCATION: LAT 39-01-36, LONG 121-49-16, T14N, R01E, SEC. 35, MD B&M SUTTER COUNTY
DRAINAGE AREA: Not available HYDROLOGIC AREA: A-07.A0

WATER DAY	YEAR OCT	OCTOBER NOV	1984 through DEC	SEPTEMBER JAN	1985 FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1		0.0	0.0										1
2		0.0	0.0										2
3		0.0	0.0										3
4		0.0	0.0										4
5		0.0	28										5
6		0.0	0.0										6
7		0.0	0.0										7
8	N	0.0	0.0	N	N	N	N	N	N	N	N	N	8
9		0.0	0.0										9
10	O	0.0	0.0	O	O	O	O	O	O	O	O	O	10
11		0.0	158										11
12		0.0	4080										12
13		0.0	2250										13
14		1300	188										14
15		1180	0.0										15
16	F	1.0	0.0	F	F	F	F	F	F	F	F	F	16
17		1.0	0.0										17
18	L	85	0.0	L	L	L	L	L	L	L	L	L	18
19		0.0	0.0										19
20	O	0.0	0.0	O	O	O	O	O	O	O	O	O	20
21	W	0.0	0.0	W	W	W	W	W	W	W	W	W	21
22		0.0	0.0										22
23		0.0	0.0										23
24		0.0	0.0										24
25		4960	0.0										25
26		5400	0.0										26
27		1320	0.0										27
28		440	0.0										28
29		5780	0.0										29
30		2240	0.0										30
31			0.0										31
MONTHLY													
MEAN	0.0	757	216	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MAX	0.0	5780	4080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
ACFT	0	45040	13300	0	0	0	0	0	0	0	0	0	
MEAN FLOW	80.6	INSTANTANEOUS DATE	MAXIMUM FLOW, 1984-85 TIME FLOW G.H.	NR	INSTANTANEOUS DATE	MINIMUM FLOW, 1984-85 TIME FLOW G.H.	NR	TOTAL ACRE FEET	58340				

REMARKS:

Station located west of north end of weir, 5.0 miles southeast of Grimes.

See Sacramento River at Tisdale Weir for stage records. Weir crest elevation is 45.45' USED datum and length of crest is 1,155 feet.

Backwater from Sutter Bypass at times affects the stage-discharge relationship.

Period of record for discharge is January 1940 to date (flood season only).

Period of record for gage height is January 1935 to date (flood season only).

FOR PERIOD OF RECORD BEGINNING 1940:

INSTANTANEOUS MAXIMUM	25700	GAGE HEIGHT	53.3	DATE	March 1, 1940	TIME	NR
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E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: A02933 RECLAMATION DISTRICT 108 DRAIN TO SACRAMENTO RIVER
LOCATION: LAT 38-51-48, LONG 121-47-30, T12N, R02E, SEC. 30, MD B&M YOLO COUNTY
DRAINAGE AREA: Not available HYDROLOGIC AREA: A-07.A0

WATER YEAR OCTOBER 1984 through SEPTEMBER 1985

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15													15
RECORDS SUFFICIENT TO COMPLETE ONLY MONTHLY FLOWS													
16													16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31

MONTHLY

MEAN	24.4	74.2	81.3	46.1	39.7	52.2	34.5	129	120	120	152	107
MAX												
MIN												
ACFT	1498	4417	4999	2834	2204	3208	2055	7923	7137	7369	9363	6369

MEAN FLOW	INSTANTANEOUS DATE	MAXIMUM FLOW, 1984-5 TIME	FLOW G.H.	INSTANTANEOUS DATE	MINIMUM FLOW, 1984-5 TIME	FLOW G.H.	TOTAL ACRE FEET
82.0		NR			NR		59,380

REMARKS:

Plant located 4.5 miles east of Robbins.

This is drainage returned by pumping.

Period of record for discharge is April 1924 to October 1938 (irrigation season only) and January 1939 to date. Records for gage height are not available.

FOR PERIOD OF RECORD BEGINNING	1939:			
	FLOW	GAGE		
	CFS	HEIGHT	DATE	TIME
INSTANTANEOUS MAXIMUM	No Record.			
AVERAGE/YEAR	Not Available.			

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: A02965 RECLAMATION DISTRICT 70 DRAIN TO SACRAMENTO RIVER
LOCATION: LAT 39-04-08, LONG 121-51-43, T14N, R1E, SEC 16, MD B&M SUTTER COUNTY
DRAINAGE AREA: Not available HYDROLOGIC AREA: A-07.A0

WATER YEAR	OCTOBER 1984	through	SEPTEMBER 1985										
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1		0.0	32	0.0		0.0	0.0	0.0	0.0	46	42	37	1
2		0.0	35	0.0		0.0	0.0	0.0	0.0	45	39	35	2
3		0.0	36	23		6.0	0.0	0.0	0.0	57	22	25	3
4		0.0	35	39		6.0	21	0.0	0.0	53	16	27	4
5		0.0	34	16		7.0	20	0.0	0.0	45	30	28	5
6		0.0	33	0.0		7.0	21	0.0	39	42	41	29	6
7		0.0	33	26		7.0	23	41	38	44	41	30	7
8	N	0.0	34	39	N	5.0	25	77	37	41	41	41	8
9		0.0	34	39		0.0	26	42	35	36	36	38	9
10	O	0.0	34	38	O	0.0	30	33	18	29	37	47	10
11		0.0	34	0.0		0.0	33	53	18	26	40	30	11
12		0.0	31	0.0		0.0	35	15	19	29	40	31	12
13		0.0	31	0.0		0.0	36	27	40	32	39	33	13
14		0.0	12	0.0		0.0	37	35	59	34	39	23	14
15	R	0.0	0.0	0.0		0.0	56	17	57	34	41	3.0	15
16	E	0.0	0.0	0.0	F	0.0	53	16	20	43	42	0.0	16
17		9.0	18	0.0		0.0	30	12	20	38	41	6.0	17
18	C	15	36	0.0	L	0.0	30	0.0	20	36	53	6.0	18
19		25	35	0.0		0.0	15	18	10	38	53	9.0	19
20	O	19	14	0.0	O	0.0	16	0.0	10	32	40	9.0	20
21	R	17	22	0.0	W	0.0	18	16	0.0	32	29	9.0	21
22		0.0	37	0.0		0.0	36	37	10	63	32	12	22
23	D	24	37	0.0		0.0	0.0	57	20	69	33	6.0	23
24		19	13	0.0		0.0	0.0	0.0	19	64	33	20	24
25		30	0.0	0.0		0.0	37	31	37	25	33	4.0	25
26		30	0.0	0.0		0.0	39	0.0	51	14	17	2.0	26
27		31	0.0	0.0		0.0	39	53	45	42	20	4.0	27
28		47	0.0	0.0		0.0	21	32	53	38	39	4.0	28
29		30	0.0	0.0		0.0	21	0.0	59	38	40	2.0	29
30		32	0.0	0.0		0.0	0.0	0.0	49	24	40	8.0	30
31			0.0	0.0		0.0		32		26	39		31
MONTHLY													
MEAN	NR	10.9	21.3	7.1	0.0	1.2	23.9	20.8	26.1	39.2	36.4	18.6	
MAX	NR	47	37	39	0.0	7.0	56	77	59	69	53	47	
MIN	NR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14	16	0.0	
ACFT	NR	651	1309	436	0	75	1424	1277	1553	2410	2237	1107	
MEAN	INSTANTANEOUS MAXIMUM FLOW, 1984-85					INSTANTANEOUS MINIMUM FLOW, 1984-85					TOTAL		
FLOW	DATE	TIME	FLOW	G.H.		DATE	TIME	FLOW	G.H.		ACRE FEET		
NR		NR					NR				NR		

REMARKS:

Plant located 1.7 miles east of Grimes.

This is drainage returned by pumping and gravity. Plant also discharges additional measured flows to irrigation canals.

Period of record for discharge is May 1924 to October 1938 (irrigation season only), January 1939 to date.

FOR PERIOD OF RECORD BEGINNING 1939:

	FLOW	GAGE		
	CFS	HEIGHT	DATE	TIME
INSTANTANEOUS MAXIMUM	Not available.			
AVERAGE/YEAR	Not available.			

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: A02955 RECLAMATION DISTRICT 787 DRAIN TO SACRAMENTO RIVER
LOCATION: LAT 38-50-48, LONG 121-43-48, T12N, R02E, SEC. 34, MD B&M YOLO COUNTY
DRAINAGE AREA: Not available HYDROLOGIC AREA: A-07.A0

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15													15
RECORDS SUFFICIENT TO COMPLETE ONLY MONTHLY FLOWS													
16													16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
MONTHLY													
MEAN	0.3	10.4	15.0	4.3	3.8	2.3	8.6	18.0	29.9	22.6	31.5	13.3	
MAX													
MIN													
ACFT	19	619	924	262	210	144	512	1110	1780	1390	1940	794	
MEAN	INSTANTANEOUS MAXIMUM FLOW, 1984-85						INSTANTANEOUS MINIMUM FLOW, 1984-85					TOTAL	
FLOW	DATE		TIME	FLOW	G.H.		DATE		TIME	FLOW	G.H.	ACRE FEET	
13.4			NR						NR			9704	

REMARKS:

Plant located 2.1 miles southwest of Robbins.

This is drainage returned by pumping. Daily distribution of flow is not available since the plant operates on an automatic float switch.

Period of record for discharge is May 1949 to date.
Records for gage height are not available.

FOR PERIOD OF RECORD BEGINNING 1949:

	FLOW	GAGE		
	CFS	HEIGHT	DATE	TIME
INSTANTANEOUS MAXIMUM	No record.			
AVERAGE/YEAR	Not available.			

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: A02976 COLUSA BASIN DRAIN AT HIGHWAY 20

LOCATION: LAT 39-11-42, LONG 122-03-36, T16N, R02W, SEC. 34, MD B&M COLUSA COUNTY

DRAINAGE AREA: Not available

HYDROLOGIC AREA: A-07.B1

WATER YEAR DAY	OCT	OCTOBER NOV	1984 through DEC	1985 JAN	SEPTEMBER FEB	1985 MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1	429	455	987	236	163	235	214	376	1260	1040	1340	1650	1
2	410	468	851	233	148	221	304	409	1160	1070	1370	1670	2
3	370	433	1410	206	147	198	239	396	1050	1070	1350	1740	3
4	353	397	1700	188	142	188	221	464	969	1140	1350	1850	4
5	360	392	1490	157	134	169	212	511	936	1170	1320	1860	5
6	433	396	1260	157	135	199	232	560	888	1160	1320	1860	6
7	440	443	980	201	136	251	271	652	734	1150	1320	1880	7
8	446	519	803	258	335	321	436	683	670	1180	1290	2040	8
9	377	489	688	259	289	220	292	867	646	1170	1300	2640	9
10	324	493	968	236	200	196	394*	973	664	1140	1280	3080	10
11	388	797	1410	228	174	283	638	1030	552	1130	1300	3110	11
12	453	920	1200	287	162	260	385	1120	441	1240	1280	2840	12
13	385	1530	894	420	157	211*	428	1290	530	1290	1260	2300	13
14	301	1800	721*	470	153	182	475	1400	438	1370	1280	1860	14
15	286	1670	599	573	153	195	482	1390	335	1310	1270	1540	15
16	214	1890	545	504	154	169	523	1300	305	1240	1300	1300	16
17	235	2270	484	478	152	199	669	1170	335	1210	1350	1230	17
18	246	1980	420	391	158	191	683	1230	395	1230	1460	1120	18
19	280	1740	405	334	154	173	613	1280	524	1270	1580	968	19
20	369	1440	364	328	156	158	513	1290	785	1280	1600	842	20
21	360	1600	335	316	154	189	564	1350	895	1310	1580	745	21
22	368	1430	296	362	149	154	613	1340	934	1420	1580	773	22
23	371	1110	286	318*	161	130	625	1250	1010	1420	1600	746	23
24	392	1340	276	293	166	142	495	1220	1040	1360	1630	670	24
25	422*	1720	266	257	162	134	422	1260	933	1270	1610	627	25
26	409	1510	264	215	226	140	503	1200	831	1240	1560	679	26
27	439	1200	261	194	171*	244	328	1210	841	1230	1640	680	27
28	429	1610*	254	194	177	204	191	1230	895	1300	1610	642	28
29	469	1560	248	186		183	186	1340	998	1310	1620	623	29
30	461	1210	251	190		175	128	1360	1060	1310	1680	613	30
31	446		246	176		164		1340		1320	1670		31
MONTHLY													
MEAN	376	1160	683	285	170	196	409	1048	768	1237	1442	1473	
MAX	469	2270	1700	573	335	321	683	1400	1260	1420	1680	3110	
MIN	214	392	246	157	134	130	128	376	305	1040	1260	613	
ACFT	23140	69050	41970	17540	9457	12060	24360	64440	45730	76070	88660	87630	
MEAN INSTANTANEOUS MAXIMUM FLOW, 1984-85													
FLOW	DATE	TIME	FLOW	G.H.	DATE	TIME	FLOW	G.H.	DATE	TIME	FLOW	G.H.	TOTAL
774	September 11	0015	3130	48.87	April 30	0200	102	37.99					560170

REMARKS:

Station located on the downstream side of the State Highway 20 bridge, 3.0 miles west of Colusa.

Stage-discharge relationship affected by backwater conditions created by downstream diversion structures.

Station moved from the upstream side of the bridge on June 14, 1979 to its present location.

Period of record for discharge is June 1924 to December 1940 (irrigation season only), May 1941 to date. Period of record for gage height is same as discharge.

The datum for this station from 1957 to present is 0.00, USED. Prior to 1957, the datum was 37.09, USED.

FOR PERIOD OF RECORD BEGINNING 1924:

INSTANTANEOUS MAXIMUM AVERAGE/YEAR	25400E	GAGE HEIGHT 51.93	DATE February 21, 1958	TIME NR
	Not available			

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: A00647 FRESHWATER CREEK AT LEESVILLE ROAD NEAR WILLIAMS
LOCATION: LAT 39-07-46, LONG 122-18-31, T15N, R04W, SEC. 28, MD B&M COLUSA COUNTY
DRAINAGE AREA: Not available HYDROLOGIC AREA: A-07.B1

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1	0.0	0.4	0.7	0.4	0.3	0.5	1.0	0.4	0.0	0.0	0.0	0.0	1
2	0.1*	0.6	2.6	0.4*	0.3	0.4	0.9	0.4	0.1	0.0	0.0	0.0	2
3	0.1	0.5	9.7	0.4	0.3	0.5	0.8*	0.4	0.1	0.0	0.0	0.0	3
4	0.1	0.5	2.1*	0.4	0.3	0.5	0.7	0.4	0.0*	0.0	0.0	0.0	4
5	0.1	0.5	1.1	0.4	0.4*	0.6	0.7	0.4	0.0	0.0	0.0	0.0	5
6	0.1	0.4*	0.8	0.4	0.4	0.7*	0.7	0.3	0.0	0.0	0.0	0.0	6
7	0.1	0.4	0.7	0.4	0.6	0.7	0.7	0.2*	0.0	0.0	0.0	0.0	7
8	0.1	0.6	0.7	0.4	73	0.5	0.8	0.3	0.0	0.0	0.0	0.0	8
9	0.1	0.4	0.7	0.4	3.3	0.5	0.8	0.3	0.0	0.0	0.0	0.0	9
10	0.2	0.6	8.5	0.4	1.1	2.9	0.9	0.3	0.0	0.0	0.0	0.0	10
11	0.3	1.0	2.2	0.3	0.6	4.8	1.0	0.3	0.0	0.0	0.0	0.0	11
12	0.3	0.7	1.1	0.3	0.5	1.2	0.8	0.3	0.0	0.0	0.0	0.0	12
13	0.2	1.4	0.7	0.3	0.4	0.7	0.8	0.3	0.0	0.0	0.0	0.0	13
14	0.2	0.6	0.7	0.3	0.4	0.5	0.8	0.2	0.0	0.0	0.0	0.0	14
15	0.2	0.7	0.7	0.3	0.3	0.4	0.7	0.1	0.0	0.0	0.0	0.0	15
16	0.4	1.6	0.7	0.3	0.3	0.4	0.8	0.1	0.0	0.0	0.0	0.0	16
17	0.6	0.8	0.7	0.3	0.3	0.3	0.8	0.1	0.0	0.0	0.0	0.0	17
18	0.5	0.8	0.7	0.3	0.3	0.4	0.7	0.2	0.0	0.0	0.0	0.0	18
19	0.5	0.7	0.6	0.3	0.3	0.3	0.7	0.2	0.0	0.0	0.0	0.0	19
20	0.4	0.8	0.6	0.3	0.3	0.4	0.6	0.1	0.0	0.0	0.0	0.0	20
21	0.4	0.7	0.6	0.3	0.3	0.3	0.7	0.1	0.0	0.0	0.0	0.0	21
22	0.4	0.7	0.5	0.3	0.3	0.3	0.7	0.1	0.0	0.0	0.0	0.0	22
23	0.4	0.7	0.5	0.3	0.3	0.3	0.6	0.0	0.0	0.0	0.0	0.0	23
24	0.4	1.0	0.5	0.3	0.3	0.4	0.5	0.0	0.0	0.0	0.0	0.0	24
25	0.3	0.8	0.5	0.3	0.4	0.4	0.5	0.0	0.0	0.0	0.0	0.0	25
26	0.3	0.8	0.5	0.3	0.4	7.6	0.5	0.1	0.0	0.0	0.0	0.0	26
27	0.3	13	0.5	0.3	0.4	6.8	0.5	0.1	0.0	0.0	0.0	0.0	27
28	0.4	7.2	0.5	0.3	0.4	3.0	0.5	0.1	0.0	0.0	0.0	0.0	28
29	0.4	1.2	0.4	0.3		2.3	0.4	0.1	0.0	0.0	0.0	0.0	29
30	0.4	0.8	0.4	0.3		1.3	0.4	0.1	0.0	0.0	0.0	0.0	30
31	0.4		0.4	0.3		1.1		0.1		0.0	0.0		31
MONTHLY													
MEAN	0.3	1.4	1.3	0.3	3.1	1.3	0.7	0.2	0.0	0.0	0.0	0.0	
MAX	0.6	13	9.7	0.4	73	7.6	1.0	0.4	0.1	0.0	0.0	0.0	
MIN	0.0	0.4	0.4	0.3	0.3	0.3	0.4	0.0	0.0	0.0	0.0	0.0	
ACFT	17	81	83	20	172	81	42	12	0	0	0	0	

MEAN FLOW	INSTANTANEOUS DATE	MAXIMUM FLOW TIME	FLOW G.H.	INSTANTANEOUS DATE	MINIMUM FLOW TIME	FLOW G.H.	TOTAL ACRE FEET
0.7	February 8	0500	239 04.49	October 1	0100	0.0 01.46	508

REMARKS:

Station located on downstream side of Leesville Road bridge, 9.8 miles west of Williams. Tributary to Colusa Basin Drain.

Period of record for discharge is October 1981 to date.

Period of record for gage height is same as discharge.

The datum for this station from 1982 to present is 0.0, local.

FOR PERIOD OF RECORD BEGINNING 1982:

INSTANTANEOUS MAXIMUM AVERAGE/YEAR	FLOW CFS	GAUGE HEIGHT	DATE	TIME
	3180	10.84	January 26, 1983	1800
	Not available			

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: A02950 RECLAMATION DISTRICT 787 DRAIN TO COLUSA BASIN DRAIN
LOCATION: LAT 38-48-03, LONG 121-43-28, T11N, R02E, SEC. 14, MD B&M YOLO COUNTY
DRAINAGE AREA: Not available HYDROLOGIC AREA: A-07.A0

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15													15
RECORDS SUFFICIENT TO COMPLETE ONLY MONTHLY FLOWS													
16													16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31

MONTHLY													
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	1.5	9.0	0.6	0.0	3.7	0.4	
MAX													
MIN													
ACFT	0	0	0	0	0	2	90	554	37	0	228	24	
MEAN	INSTANTANEOUS MAXIMUM FLOW, 1984-85						INSTANTANEOUS MINIMUM FLOW, 1984-85				TOTAL		
FLOW	DATE		TIME		FLOW G.H.		DATE		TIME		FLOW G.H.		ACRE FEET
1.3			NR						NR				935

REMARKS:

Plant located 0.3 miles west of Knights Landing.

This is drainage returned by pumping between Knights Landing and Outfall Gates and the Sacramento River. Daily distribution of flow is not available since the plant operates on an automatic float switch.

Period of record for discharge is January 1940 to date.
Record for gage height are not available.

FOR PERIOD OF RECORD BEGINNING 1940:

	FLOW	GAGE		
	CFS	HEIGHT	DATE	TIME
INSTANTANEOUS MAXIMUM	No record.			
AVERAGE/YEAR	Not available.			

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: A02945 COLUSA BASIN DRAIN AT KNIGHTS LANDING

LOCATION: LAT 38-48-06, LONG 121-43-18, T11N, R02E, SEC. 14, MD B&M YOLO COUNTY

DRAINAGE AREA: Not available

HYDROLOGIC AREA: A-07.D0

WATER DAY	YEAR OCT	OCTOBER NOV	1984 DEC	through JAN	SEPTEMBER FEB	1985 MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1	689	170	0.0	532	183	138	89	0.0	1520	1150	1250	1850	1
2	531	391	0.0	527	181	145	126	0.0	1480	793	1260	1870	2
3	489	212	0.0	458	171	160	270	136	1360	993	1260	1880	3
4	529	0.0	0.0	434	250	196	167	250	1080	1010	1250	1930	4
5	529	240	0.0	294	131	179	29	244	982	965	1140	2020	5
6	533	258	0.0	146	18	178	28	91	943	982	1180	2070	6
7	569	223	0.0	164	19	208	28	0.0	809	989	1200	2090	7
8	595	233	0.0	180	277	278	114	351	466	1140	1200	2100	8
9	610	403	0.0	186	177	320	464	630	585	1170	1250	2160	9
10	741	550	0.0	175	0.0	239	448	741	600	1150	1310	2240	10
11	618	612	0.0	175	36	240	464	811	450	998	1290	2250	11
12	609	843	0.0	175	380	227	558	834	425	1080	1210	2260	12
13	622	401	0.0	239	436	175	544	1130	348	1290	1170	2290	13
14	524	0.0	0.0	305	399	202	534	1280	447	1440	1160	2280	14
15	440	0.0	0.0	496	185	182	541	1310	213	1440	1190	2230	15
16	387	0.0	0.0	660	176	206	556	1460	0.0	1240	1200	2090	16
17	356	87	0.0	543	184	208	582	1280	0.0	1240	1250	1900	17
18	347	0.0	0.0	663	182	218	616	1140	176	1080	1320	1790	18
19	350	0.0	0.0	422	184	221	637	1080	221	1200	1490	1680	19
20	370	0.0	0.0	73	181	166	639	1290	184	1150	1590	1260	20
21	421	0.0	0.0	23	185	189	620	1370	618	1030	1710	1150	21
22	431	0.0	4.0	61	171	194	616	1360	657	1180	1760	1030	22
23	445	0.0	478	303	171	164	621	1320	674	1350	1710	978	23
24	452	0.0	556	395	171	170	618	1260	1200	1400	1690	934	24
25	457	0.0	561	392	174	184	598	1260	979	1370	1700	876	25
26	567	0.0	254	400	169	166	580	1280	738	1090	1740	831	26
27	776	0.0	243	397	180	229	563	1290	735	852	1730	853	27
28	867	0.0	243	314	162	270	479	1280	732	852	1740	842	28
29	909	0.0	223	184	212	176	1300	738	853	1750	816	29	29
30	955	0.0	241	183	230	30	1390	767	1030	1780	794	30	30
31	1020		230	185	209		1490		1200	1820		31	31

MONTHLY

MEAN	572	154	97.8	312	183	203	411	924	671	1120	1429	1645
MAX	1020	843	561	663	436	320	639	1490	1520	1440	1820	2290
MIN	347	0.0	0.0	23	0.0	138	28	0.0	0.0	793	1140	794
ACFT	35180	9170	6016	19210	10180	12500	24470	56840	39920	68840	87870	97870

MEAN FLOW 647	INSTANTANEOUS DATE	MAXIMUM FLOW, TIME	1984-5 CFS	1984-5 G.H.	INSTANTANEOUS DATE	MINIMUM FLOW, TIME	1984-5 CFS	1984-5 G.H.	TOTAL ACRE FEET 468066
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REMARKS:

Station located at Knights Landing Outfall Gates, 0.3 miles west of Knights Landing.
Tributary to Sacramento River.

Flow regulated by outfall gates.

Period of record for discharge is May 1924 to October 1939 (irrigation season only),
January 1940 to date. Period of record for gage height is same discharge.

The datum for this station from 1924 to present is 0.0, USED.

FOR PERIOD OF RECORD BEGINNING 1924:

INSTANTANEOUS AVERAGE/YEAR	MAXIMUM	FLOW CFS NR	GAUGE HEIGHT 40.40	DATE March 6, 1983	TIME 2200
		Not available			

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: A02930 FREMONT WEIR SPILL TO YOLO BYPASS
LOCATION: LAT 38-45-44, LONG 121-39-02, T11N, R03E, SEC. 27, MD B&M YOLO COUNTY
DRAINAGE AREA: Not available HYDROLOGIC AREA: A-02.A0

WATER YEAR	OCTOBER	1984 through	SEPTEMBER	1985									
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8	N	N	N	N	N	N	N	N	N	N	N	N	8
9													9
10	O	O	O	O	O	O	O	O	O	O	O	O	10
11													11
12													12
13													13
14													14
15													15
16	F	F	F	F	F	F	F	F	F	F	F	F	16
17													17
18	L	L	L	L	L	L	L	L	L	L	L	L	18
19													19
20	O	O	O	O	O	O	O	O	O	O	O	O	20
21	W	W	W	W	W	W	W	W	W	W	W	W	21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
MONTHLY													
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MAX	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
ACFT	0	0	0	0	0	0	0	0	0	0	0	0	
MEAN FLOW	INSTANTANEOUS	MAXIMUM FLOW, 1984-85					INSTANTANEOUS	MINIMUM FLOW, 1984-85					TOTAL
0.0	DATE	TIME	FLOW	G.H.			DATE	TIME	FLOW	G.H.			ACRE FEET
	OCTOBER 01	0015	0.0	NR			OCTOBER 01	0015	0.0	NR			0

REMARKS:

Station located 4.1 miles southeast of Knights Landing.
Concrete weir 9,120 feet wide with elevation at crest equal to 33.50 (USED) - 3.14 = 30.36 (NGVD).
Flows are computed using gage Sacramento River at Fremont Weir (west) for gage heights.
Period of record for discharge is January 1947 to date.
The datum for this station not relevant.

FOR PERIOD OF RECORD BEGINNING 1935:

	FLOW	GAGE		
	CFS	HEIGHT	DATE	TIME
INSTANTANEOUS MAXIMUM	294000	NR	December 23, 1955	NR
AVERAGE/YEAR	Not available.			

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: A04265 BUTTE CREEK NEAR DURHAM

LOCATION: LAT 39-40-38, LONG 121-46-37, T21N, R2E, SEC. 17, MD B&M BUTTE COUNTY

DRAINAGE AREA: Not available HYDROLOGIC AREA: A-07.D0

WATER DAY	YEAR OCT	OCTOBER NOV	1984 DEC	through JAN	SEPTEMBER FEB	1985 MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY	
1	38	88	354	185	170	233	415	116	61	15	9.8	13	1	
2	37	157	324	183	175	235	458	117	49	13	13	13	2	
3	36	310	356	181	176	226	466	117	45	13	9.8	13	3	
4	35	180	287	180	172	232	440	111	40	16	8.4	11	4	
5	35*	146	285	178	167	229	431	105	40	22	8.2	9.9	5	
6	35	168	261	176	169	242	415	101	45	18	7.9	13	6	
7	34	251	241	211	238	292	406	96	41	22	7.9	22	7	
8	36	268	241	219	1920	256	396	93	39	22	7.9*	99	8	
9	38	238	239	212	757	247	388*	91	34	18	7.9	143	9	
10	41	179	313	213	469	274	380	89	31	16	7.9	112	10	
11	137	388	474	207	364	290	357	87	26	13	8.0	71	11	
12	86	475	444*	221	320	284	346	89	27	9.0	8.3	54	12	
13	64	820	380	216	301	284	317	85	25	10	8.3	45	13	
14	59	527	343	213	293	283	282	80	23	10	8.6	47	14	
15	66	343*	427	209	289	288*	304	78*	20	10	8.3	40	15	
16	87	349	421	194	284	288	306	68	20	10	8.3	37	16	
17	110	353	326	189	278	284	293	66	25	14	8.3	38*	17	
18	99	372	295	190	268	303	271	60	26	17*	8.5	43	18	
19	116	329	272	187	266	306	281	56	29	19	8.7	59	19	
20	113	336	253	187	266	299	258	60	24	23	8.7	54	20	
21	100	352	241	184	256	301	248	64	21	24	8.7	52	21	
22	87	299	231	183	252*	282	243	61	21	24	8.7	54	22	
23	75	268	223	180	255	272	229	54	20	14	8.7	53	23	
24	63	805	218	175	251	314	221	60	22	9.6	8.7	26	24	
25	65	520	212	172	248	339	211	69	22	10	11	25	25	
26	67	374	209	184	242	419	204	67	20	9.1	12	25	26	
27	75	575	204	179	238	482	168	66	17	10	9.5	26	27	
28	68	922	202	190	233	454	142	63	18	9.1	9.9	30	28	
29	81	547	194	184*		383	132	68	17	9.1	9.5	24	29	
30	85	413	190	174		358	121	74	17	8.8	11	24	30	
31	83		186	173		367		66		8.8	12		31	
MONTHLY														
MEAN	69.4	378	285	191	333	301	304	79.9	28.8	15.4	9.1	42.5		
MAX	137	922	474	221	1920	482	466	117	61	24	13	143		
MIN	34	88	186	172	167	226	121	54	17	8.8	7.9	9.9		
ACFT	4278	22520	17550	11760	18480	18540	18110	4913	1716	886	560	2531		
MEAN														
FLOW	INSTANTANEOUS MAXIMUM FLOW, 1984-85													
	DATE	TIME	FLOW	G.H.	DATE	TIME	FLOW	G.H.	INSTANTANEOUS MINIMUM FLOW, 1984-85					TOTAL
168	February	08 0930	3570	7.06	July 12	1915	7.90	1.02						121832

REMARKS:

Station located 0.1 mile below Ord-Chico Highway bridge, 2.6 miles northeast of Durham.
Tributary to Butte Slough.

Flow affected at times by large upstream diversions and imports from West Branch Feather River.

Period of record for discharge is January 1958 to date.

Period of record for gage height is same as discharge.

The datum for this station from 1958 to present is 181.01, USED.

PERIOD OF RECORD BEGINNING 1958:

	FLOW CFS	GAGE HEIGHT	DATE	TIME
INSTANTANEOUS MAXIMUM	21300E	14.55	December 22, 1964	1850
AVERAGE/YEAR	Not Available			

E = Estimated. NR = No Record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
 (in cubic feet per second)

STATION NUMBER: A02984 CHEROKEE CANAL NEAR RICHVALE
 LOCATION: LAT 39-27-54, LONG 121-44-30, T19N, R02E, SEC. 23, MD B&M BUTTE COUNTY
 DRAINAGE AREA: Not available HYDROLOGIC AREA: A-07.D0

WATER DAY	YEAR OCT	OCTOBER NOV	1984 through DEC	1985 JAN	SEPTEMBER FEB	1985 MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1	2.4	40	138	71	27	59	36	22	35	26	23	23	1
2	2.9	37	123	70	41	59	32	23	35	29	19	24	2
3	3.9	41	236	66	59	59	29	14	31	39	17	26	3
4	8.2*	44	173	65	59	57	26	12	28	22	9.7	28	4
5	6.6	43	135	67	58	59*	30	31	31	33	15	33	5
6	6.2	47	119	67	57	73	49	29	33	41	27	27	6
7	6.4	48	104	80	78	104	47	32	32	37	30	23	7
8	6.4	60	98	101	987	91	50	30	29	37	28	25	8
9	5.2	64	91	77	329	75	57*	29	32	37	23*	28	9
10	4.2	56	240	74	158	76	51	27	36	36	22	19	10
11	23	157	234	70	119	108	54	23	32	36	20	4.6	11
12	37	403	147	67	104	61	52	30	31	38	19	14	12
13	29	461	115	66	94	41	49	35	31	39	19	43	13
14	25	217*	99	65	87	36	44	29	30	38	19	37	14
15	23	123	197	64	83	32	45	32*	36	38*	19	34	15
16	25	163	482	63	80	30	44	25	37	38	19	27	16
17	52	240	201	62	77	28	48	28	38	34	21	33*	17
18	45	348	140	63	74	26	45	34	34	33	23	37	18
19	36	198	119	63	73	28	51	28	33	34	23	34	19
20	36	138	108*	62	71	25	15	30	31	34	25	33	20
21	37	380	99	61	69*	22	11	36	31	33	24	40	21
22	38	178	93	60	67	20	15	32	35	35	23	32	22
23	40	125	89	61	64	20	26	33	39	35	25	23	23
24	34	1080	87	62	63	22	18	33	39	35	25	22	24
25	33	380	85	60	62	30	23	39	35	34	26	15	25
26	31	188	82	71	61	32	30	34	32	33	26	9.4	26
27	34	231	80	71	60	230	31	35	36	28	26	12	27
28	36	801	77	67	58	104	29	30	35	24	26	13	28
29	35	237	75	70		66	25	29	36	30	24	12	29
30	41	168	73	59*		51	23	26	31	31	23	12	30
31	42		72	38		41		33		30	23		31
MONTHLY													
MEAN	25.3	223	136	66.5	115	56.9	36.2	29.1	33.5	33.8	22.3	24.8	
MAX	52	1080	482	101	987	230	57	39	39	41	30	43	
MIN	2.4	37	72	38	27	20	11	12	28	22	9.7	4.6	
ACFT	1556	13280	8352	4092	6385	3501	2152	1791	1991	2077	1372	1474	

MEAN FLOW	INSTANTANEOUS FLOW	MAXIMUM FLOW, 1984-5	DATE	TIME	CFS	G.H.	INSTANTANEOUS MINIMUM FLOW, 1984-5	DATE	TIME	CFS	G.H.	TOTAL ACRE FEET
66.3			November 24	1215	3180	9.86		May 04	730	1.5	3.33	48023

REMARKS:

Station located at Butte City Road bridge, 2.1 miles south of Richvale.

Backwater from Cherokee Dam Weir, 1.05 miles below station, at times affects the stage-discharge relationship.

Period of record for discharge is June 1960 to date.
 Period of record for gage height is same as discharge.

The datum for this station from 1960 to present is 88.2, USCGS.

FOR PERIOD OF RECORD BEGINNING 1960:

INSTANTANEOUS AVERAGE/YEAR	MAXIMUM	FLOW CFS	GAUGE HEIGHT	DATE	TIME
		15200E	13.80	October 13, 1962	1940
		Not available			

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: A02972 BUTTE SLOUGH NEAR MERIDIAN

LOCATION: LAT 39-10-05, LONG 121-53-28, T15N, R01E, SEC. 06, MD B&M SUTTER COUNTY

DRAINAGE AREA: Not available

HYDROLOGIC AREA: A-07.C0

WATER YEAR	OCTOBER	1984 through	SEPTEMBER	1985										
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY	
1	167	309	2500	451	256	158	252	221	378	289	527	774	1	
2	176	253	2360	452	243	174	249	237	372	291	530	763	2	
3	172	169	2210	412	240	146	273	261	339	312	483	764	3	
4	171	212	2080	355	240	143	287	310	282	362	415	790	4	
5	176	237	1990	340	230	146	274	288	270	378	391	811	5	
6	179	208	1870	337	226	163	258	259	268	389	362	823	6	
7	182	201	1710	341	220	205	245	247	338	382	361	823	7	
8	185	234	1460	361	245	245	258	255	300	392	381	836	8	
9	187	291	1250	403	666	298	293	241	248	357	390	922	9	
10	187	365	1130	420	1200	279	283*	222	271	311	391	1040	10	
11	186	403	1140	429	993	277	256	219	258	294	401	1100	11	
12	193	817	1200	418	715	354	211	221	238	306	404	1120	12	
13	204	1510	1170*	413	558	351*	234	271	230	346	405	1120	13	
14	201	1820	1120	390	445	265	360	335	222	405	416	1080	14	
15	192	1970	1060	411	352	200	391	360	224	463	433	1020	15	
16	180	2030	1010	453	292	221	391	396	270	517	441	963	16	
17	180	2010	1140	455	272	220	360	350	267	506	512	793	17	
18	170	2040	1130	432	255	220	278	329	214	469	587	635	18	
19	181	2050	1070	407	236	219	270	258	175	442	663	546	19	
20	220	2050	1010	388	239	219	282	321	180	407	796	502	20	
21	261	2050	964	373	233	241	294	359	204	415	863	441	21	
22	292	2000	851	363	220	303	310	380	225	444	851	385	22	
23	318	1940	755	349*	207	301	327	425	216	490	827	350	23	
24	356	1870	702	340	197	271	279	407	259	511	832	287	24	
25	378	1960	652	324	196	310	213	383	346	532	820	215	25	
26	346	2300	616	313	183	370	200	375	368	535	785	151	26	
27	277	2360	567	300	176	227	227	371	336	530	720	122	27	
28	257	2430	547	293	167*	349	216	351	316	526	688	129	28	
29	264	2460*	520	287	340	216	362	288	537	677	140	29		
30	274	2520	483	279	319	220	390	282	544	709	142	30		
31	286		461	271	278		379		535	755		31		
MONTHLY														
MEAN	226	1369	1185	373	346	252	274	316	273	426	575	653		
MAX	378	2520	2500	455	1200	370	391	425	378	544	863	1120		
MIN	167	169	461	271	167	143	200	219	175	289	361	122		
ACFT	13880	81460	72850	22930	19240	15490	16280	19400	16230	26220	35340	38850		
MEAN	INSTANTANEOUS MAXIMUM FLOW, 1984-85				INSTANTANEOUS MINIMUM FLOW, 1984-85				TOTAL					
FLOW	DATE				DATE				ACRE FEET					
522	November 30 1845 2540 48.25				September 27 1500 120 40.94				378170					

REMARKS:

Station located on right bank 0.5 miles upstream from Farmlan Road 1.7 miles northeast of Meridian. Tributary to Sutter Bypass.

Flow affected by gate operation upstream. Stage-discharge relationship affected by backwater conditions created by downstream diversion structures. Flow during summer months is made up almost entirely of return water from lands irrigated by Feather River diversions. During flood periods, Sacramento River water enters Butte Basin above Butte City from bank spill and spill over Moulton and Colusa Weirs.

Period of record for discharge is January 1939 to date. Period of record for gage height is November 1934 to May 1937 (flood season only), October 1937 to date.

The datum for this station from 1934 to present is 0.00, USED.

FOR PERIOD OF RECORD BEGINNING 1937:

	FLOW	GAGE		
	CFS	HEIGHT	DATE	TIME
INSTANTANEOUS MAXIMUM	179000	62.20	March 04, 1983	1100
AVERAGE/YEAR	Not available			

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: A05922 RECLAMATION DISTRICT 1660 DRAINAGE TO SUTTER BYPASS
LOCATION: LAT 39-01-57, LONG 121-44-33, T14N, R2E, SEC 27, MD B&M SUTTER COUNTY
DRAINAGE AREA: Not available HYDROLOGIC AREA: A-07.C0

WATER DAY	YEAR OCT	OCTOBER NOV	1984 through DEC	SEPTEMBER JAN	1985 FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1	126	0.0	65	19							0.0	0.0	1
2	126	0.0	66	12							0.0	0.0	2
3	126	0.0	67	15							0.0	0.0	3
4	116	0.0	67	18							0.0	36	4
5	116	0.0	66	18							0.0	21	5
6	116	0.0	70	17							0.0	35	6
7	107	0.0	66	2.0							0.0	35	7
8	86	0.0	67	0.0	N	N	N	N	N	N	0.0	35	8
9	76	0.0	70	0.0							0.0	35	9
10	38	0.0	65	0.0	O	O	O	O	O	O	0.0	35	10
11	23	0.0	83	0.0							0.0	35	11
12	38	0.0	61	0.0							0.0	35	12
13	38	0.0	63	0.0							0.0	35	13
14	63	0.0	70	0.0							0.0	35	14
15	63	0.0	68	0.0							0.0	35	15
16	63	35	69	0.0	F	F	F	F	F	F	0.0	36	16
17	76	36	68	0.0							0.0	36	17
18	63	36	68	0.0	L	L	L	L	L	L	0.0	36	18
19	63	35	71	0.0							0.0	37	19
20	63	33	69	0.0	O	O	O	O	O	O	0.0	26	20
21	76	34	57	0.0	W	W	W	W	W	W	0.0	22	21
22	76	37	59	0.0							37	18	22
23	50	64	29	0.0							36	0.0	23
24	63	64	30	0.0							36	0.0	24
25	50	64	26	0.0							36	0.0	25
26	63	59	30	0.0							36	0.0	26
27	63	62	28	0.0							36	0.0	27
28	0.0	65	29	0.0							36	0.0	28
29	0.0	64	23	0.0							36	0.0	29
30	0.0	64	31	0.0							33	0.0	30
31	0.0		19	0.0							29		31

MONTHLY	MEAN	MAX	MIN	ACFT	65.4	25.1	55.5	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.3	20.6
	126	65	83	19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37	37
	0.0	0.0	19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	4020	1492	3412	200	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	696	1226	

MEAN FLOW	INSTANTANEOUS MAXIMUM FLOW, 1984-85				INSTANTANEOUS MINIMUM FLOW, 1984-85				TOTAL
15.3	DATE	NR	TIME	FLOW G.H.	DATE	NR	TIME	FLOW G.H.	ACRE FEET
									11046

REMARKS:

Plant located 9.9 miles southwest of Yuba City, 8.5 mile east of Grimes.

This is drainage returned by pumping and gravity.

Period of record for discharge is May 1954 to date.
Records for gage height are not available.

FOR PERIOD OF RECORD BEGINNING 1954:

INSTANTANEOUS MAXIMUM AVERAGE/YEAR	FLOW CFS	GAGE HEIGHT	DATE	TIME
	Not available.	Not available.		

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: A05929 WADSWORTH CANAL NEAR SUTTER
LOCATION: LAT 39-09-12, LONG 121-44-00, T15N, R02E, SEC. 15, MD B&M SUTTER COUNTY
DRAINAGE AREA: Not available HYDROLOGIC AREA: A-07.C0

WATER YEAR	OCTOBER	1984 through	SEPTEMBER	1985										
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY	
1	115	86	104	39	23	17	170	46	174	89	90	218	1	
2	120	45	94	36	23	22	162	86	164	70	81	223	2	
3	126	25	151	35	23	21	124	100	187	75	90	242	3	
4	126*	20	124	36	23	7.0	116	132	179	77	88	256	4	
5	140	24	104	35	22	16*	112	110	158	58	75	274	5	
6	126	23	92	35	23	6.0	131	101	140	44	67	261	6	
7	127	22	81	48	24	22	137	74	108	56	92*	253	7	
8	132	26	73	48	118	69	126	65	141	61	89	294	8	
9	126	24	68	47	97	130	112*	108	130	34	94	335	9	
10	132	23	81	47	65	147	139	108	97	31	94	366	10	
11	147	33	86	45	56	143	99	77	60	57	79	333	11	
12	143	47	79	44	49	92	115	90	53	64	75	276	12	
13	130	71	73	34	45	82	151	106	39	75	85	260	13	
14	128	57*	67	34	41	97	203	105	29	108	120	239	14	
15	130	43	84	33	40	110	180	125	44	105	128	216	15	
16	127	49	104	30	38	110	117	97	54	97*	121	195	16	
17	114	53	82	30	37	121	142	84*	64	87	97	177	17	
18	128	89	75	29	35	128	138	157	38	90	118	171*	18	
19	125	68	73	28	35	115	153	189	24	97	138	171	19	
20	103	64	64*	28	33	96	163	175	24	71	141	155	20	
21	102	75	59	31	31*	84	171	181	38	77	147	133	21	
22	101	62	57	33	30	91	132	170	84	92	149	121	22	
23	115	53	52	30	29	137	104	167	88	79	140	112	23	
24	110	165	52	28	28	152	107	225	80	81	177	107	24	
25	102	137	49	27	27	145	132	185	73	75	163	116	25	
26	101	101	48	26	26	148	150	190	81	75	201	121	26	
27	98	126	46	25	22	233	126	210	75	65	204	121	27	
28	104	309	44	23	24	196	71	194	77	73	201	124	28	
29	110	175	42	24	199	35	165	80	84	193	130	29	29	
30	108	123	40	24*	213	55	163	98	87	203	127	30	30	
31	118		40	24	210		162		93	206		31	31	
MONTHLY														
MEAN	120	73.9	73.8	33.4	38.1	108	129	134	89.4	75.1	127	204		
MAX	147	309	151	48	118	233	203	225	187	108	206	366		
MIN	98	20	40	23	22	6.0	35	46	24	31	67	107		
ACFT	7367	4399	4538	2055	2116	6662	7682	8225	5318	4616	7827	12150		

MEAN	INSTANTANEOUS	MAXIMUM FLOW, 1984-85	INSTANTANEOUS	MINIMUM FLOW, 1984-85	TOTAL
FLOW	DATE	TIME FLOW G.H.	DATE	TIME FLOW G.H.	ACRE FEET
101		NR		NR	72955

REMARKS:

Station located at South Butte Road bridge, 0.9 miles east of Sutter. Tributary to Sutter Bypass.

This station and one 2.2 miles downstream are used to determine the slope for rating of canal. This flow and flow of Butte Slough to Sutter Bypass make up entire Feather River contribution to the Sutter Bypass. Stage-discharge relationship affected by backwater conditions created by downstream diversion structures.

Records from January 1939 to March 1961 previously published as Wadsworth Canal at Butte House Road. Period of record for discharge is March 1961 to date. Period of record for gage height is same as discharge.

The datum for this station from 1961 to present is 0.00, USED.

FOR PERIOD OF RECORD BEGINNING 1929:

	FLOW	GAUGE		
	CFS	HEIGHT	DATE	TIME
INSTANTANEOUS MAXIMUM**	1340	47.15	February 27, 1973	1930
AVERAGE/YEAR	Not available.			

** Instantaneous maximum gage height was recorded on March 4, 1983 (0945) as 54.29 feet (discharge not calculated).

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: A02963 RECLAMATION DISTRICT 1660 DRAINAGE TO TISDALE BYPASS
LOCATION: LAT 39-01-44, LONG 121-46-53, T14N, R2E, SEC 30, MD B&M SUTTER COUNTY
DRAINAGE AREA: Not available HYDROLOGIC AREA: A-07.A0

WATER DAY	YEAR OCT	OCTOBER NOV	1984 through DEC	SEPTEMBER JAN	1985 FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1	0.0	57	0.0	0.0	25	0.0	33	8.9	31	19	32	0.0	1
2	0.0	53	0.0	0.0	27	0.0	35	5.4	30	16	35	0.0	2
3	0.0	45	35	0.0	27	0.0	39	9.3	33	15	37	0.0	3
4	0.0	38	0.0	0.0	27	0.0	41	15	25	15	38	0.0	4
5	0.0	30	50	0.0	30	0.0	41	16	25	14	38	0.0	5
6	0.0	22	0.0	0.0	30	32	41	16	8.0	13	40	0.0	6
7	0.0	0.0	0.0	27	30	31	41	16	9.2	16	42	0.0	7
8	0.0	0.0	37	22	33	30	40	16	9.8	16	43	0.0	8
9	0.0	0.0	0.0	22	32	30	38	15	10	17	45	0.0	9
10	0.0	0.0	0.0	25	33	27	35	16	11	17	52	0.0	10
11	0.0	10	0.0	22	25	26	35	17	11	27	50	23	11
12	10	10	0.0	25	28	26	35	16	11	25	50	0.0	12
13	10	0.0	27	25	28	27	36	17	35	27	48	0.0	13
14	10	0.0	0.0	25	14	26	38	55	37	27	36	0.0	14
15	14	0.0	0.0	22	22	27	39	51	37	57	53	0.0	15
16	20	0.0	0.0	25	28	27	39	43	34	51	39	0.0	16
17	27	36	0.0	32	25	27	38	45	11	48	38	0.0	17
18	28	38	0.0	36	27	26	39	25	11	33	52	0.0	18
19	32	47	0.0	39	22	26	38	16	11	33	46	0.0	19
20	32	37	0.0	41	10	25	39	17	11	34	38	0.0	20
21	32	0.0	0.0	47	14	25	39	19	11	36	30	0.0	21
22	32	0.0	0.0	43	14	24	38	30	11	38	28	0.0	22
23	32	0.0	0.0	39	17	24	46	30	11	58	14	0.0	23
24	28	17	0.0	35	22	24	40	46	11	54	14	17	24
25	28	0.0	0.0	32	20	24	36	27	11	51	10	14	25
26	28	0.0	0.0	30	25	25	30	23	11	48	14	14	26
27	32	47	0.0	27	22	26	25	25	23	35	14	14	27
28	32	10	0.0	25	25	22	14	25	21	37	14	14	28
29	28	0.0	0.0	22	20	20	0.0	26	20	35	10	17	29
30	27	43	0.0	22	19	19	0.0	45	20	35	10	16	30
31	14	0.0	0.0	25	18	18	47	47	35	35	0.0	16	31

MONTHLY

MEAN	16.0	18.0	4.8	23.7	24.4	21.4	34.3	25.1	18.4	31.7	32.6	4.3
MAX	32	57	50	47	33	32	46	55	37	58	53	23
MIN	0.0	0.0	0.0	0.0	10	0.0	0.0	5.4	8.0	13	0.0	0.0
ACFT	984	1071	296	1458	1353	1317	2039	1544	1093	1948	2003	256

MEAN FLOW	INSTANTANEOUS DATE	MAXIMUM FLOW TIME	1984-85 FLOW G.H.	INSTANTANEOUS DATE	MINIMUM FLOW TIME	1984-85 FLOW G.H.	TOTAL ACRE FEET
21.2		NR			NR		15362

REMARKS:

Plant located on north levee od Tisdale Bypass, 2.1 miles east of Tisdale Weir, located 6.8 miles east of Grimes.

This is drainage returned by pumping and gravity.

Period of record for discharge is January 1925 to date.
Records for gage height are not available.

FOR PERIOD OF RECORD BEGINNING 1929:

INSTANTANEOUS MAXIMUM AVERAGE/YEAR	FLOW CFS	GAUGE HEIGHT	DATE	TIME
		Not available.		
		Not available.		

E = Estimated. NR = No Record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: A02926 RECLAMATION DISTRICT 1500 DRAIN TO SACRAMENTO SLOUGH
LOCATION: LAT 38-47-06, LONG 121-39-18, T11N, R03E, SEC. 20, MD B&M SUTTER COUNTY
DRAINAGE AREA: Not available HYDROLOGIC AREA: A-07.A0

WATER YEAR	OCTOBER	1984 through	SEPTEMBER	1985									
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1	20	0.0	141	90	33	41	25	105	487	368	285	324	1
2	0.0	0.0	154	65	0.0	33	4.0	131	373	274	324	315	2
3	114	0.0	174	65	91	48	0.0	132	328	237	324	324	3
4	0.0	0.0	171	45	25	22	25	145	144	274	342	351	4
5	0.0	0.0	147	20	16	36	15	152	591	296	342	368	5
6	0.0	0.0	138	86	29	13	62	173	409	274	351	285	6
7	0.0	0.0	138	62	33	0.0	57	167	424	274	359	538	7
8	0.0	41	143	70	194	99	60	158	366	274	359	360	8
9	0.0	33	111	74	174	45	44	172	301	262	359	405	9
10	74	53	143	86	120	78	81	164	447	285	333	413	10
11	0.0	49	132	74	101	25	110	174	382	285	351	388	11
12	0.0	57	151	66	65	29	86	207	391	285	306	318	12
13	0.0	167	142	74	78	41	84	239	411	262	315	278	13
14	0.0	92	114	61	82	41	82	243	215	209	315	229	14
15	18	76	135	41	53	41	59	187	275	180	306	209	15
16	66	88	127	57	49	41	75	91	306	148	306	197	16
17	0.0	100	119	57	82	25	115	355	309	297	315	193	17
18	0.0	120	104	57	41	53	136	365	317	276	324	160	18
19	0.0	112	108	57	41	25	264	156	257	263	33	127	19
20	0.0	116	104	57	58	13	167	341	265	267	297	12	20
21	0.0	132	96	53	58	47	145	288	286	280	496	28	21
22	0.0	116	97	53	53	23	122	288	279	263	477	53	22
23	0.0	92	85	37	53	4.0	143	282	325	296	317	65	23
24	16	128	85	41	25	8.0	204	276	332	296	66	85	24
25	0.0	128	85	53	41	0.0	274	250	560	279	209	67	25
26	0.0	131	89	53	41	0.0	325	276	383	250	250	67	26
27	0.0	177	77	16	41	8.0	199	301	309	226	250	27	27
28	0.0	170	77	0.0	41	62	133	335	325	230	296	34	28
29	0.0	173	65	25		62	94	368	460	144	306	28	29
30	0.0	161	65	33		49	102	351	367	315	324	80	30
31	0.0		65	33		107		385		250	342		31

MONTHLY													
MEAN	9.9	83.7	116	53.6	61.4	36.1	110	234	354	262	309	211	
MAX	114	177	174	90	194	107	325	385	591	368	496	538	
MIN	0.0	0.0	65	0.0	0.0	0.0	0.0	91	144	144	33	12	
ACFT	611	4982	7105	3295	3408	2220	6530	14390	21070	16100	19000	12550	
MEAN	INSTANTANEOUS MAXIMUM FLOW, 1984-85						INSTANTANEOUS MINIMUM FLOW, 1984-85						TOTAL
FLOW	DATE						DATE						ACRE FEET
154	NR						NR						111261

REMARKS:

Plant located on west levee of Sutter Bypass, 3.7 miles southeast of Knights Landing.

This is drainage returned by pumping and gravity.

Period of record for discharge is April 1930 to October 1938 (irrigation season only) and January 1938 to date. Records for gage height are not available.

FOR PERIOD OF RECORD BEGINNING 1915:

INSTANTANEOUS MAXIMUM	FLOW	GAGE	DATE	TIME
AVERAGE/YEAR	CFS	HEIGHT		
	Not available.			
	Not available.			

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: A02925 SACRAMENTO SLOUGH AT SACRAMENTO RIVER

LOCATION: LAT 38-46-63, LONG 121-38-27, T11N, R3E, SEC. 21, MD B&M

SUTTER COUNTY

DRAINAGE AREA: Not available

HYDROLOGIC AREA: A-07.A0

WATER YEAR	OCTOBER	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1	273	434	---F	622	455	364	603	415	1340	614	1290E	1850	1
2	246	634	5310	671	393	352	480	445	1280	612	1310	1870	2
3	358	582	4740	609	484	325	384	535	1120	552	1270	1850	3
4	361	380	3670	584	422	304	363	682	1110	549	1280	1880	4
5	369	165	2710	533	344	203	358	708	1010	639	1240	1860	5
6	291	53	2790	526	381	174	484	711	908	684	1190	1930	6
7	280	52	2850	466	396	157	502	561	882	705	1100	2090	7
8	305	54	2440	472*	327	221	479	472	905	690	1080	1970	8
9	305	214	2300	562	14	355	451	361	752	693	1080	2020	9
10	336	227	2070	846	936	408	558*	350	848	667	1050	2190	10
11	387	308	1300	757	1480	375	670	394	803	610	1100	2290	11
12	354	435	689	665	1270	483	637	496	727	615	1110	2340	12
13	322	474	2180	650	1180	569*	616	644	749	638	1160	2270	13
14	407	592	2840	646	1040	593	604	797	670	638	1180	2220	14
15	422	1220	2520	546	914	596	678	1020	551	795	1160	2150	15
16	419	1800	1890	468	771	536	835	938	576	879	1260	2040	16
17	421	1840	1600	598	679	559	804	978	608	978	1360	1970	17
18	381	1630	1580	628	553	562	725	987	652	939	1420	1880	18
19	368	1850	1550	629	492	526	819	916	581	939	1470	1720	19
20	367	1890	1410	648	453	466	774	943	519	917	1570	1430	20
21	350	2180	1320	618	394	471	767	950	486	897	1930	1370	21
22	350	1940	1260	602	371	485	840	1020	431	832	1950	1340	22
23	379	2050	1150	609	416	470	821	1140	433	1100E	1910	1240	23
24	310	2090	1020	575	369	527	743	1110	558	1040E	1840	1110	24
25	335*	1670	943	548	366	554	708	1120	790	1100E	1840	969	25
26	480	2640	742	562	337	737	729	1120	855	1100E	1840	823	26
27	492	4380	581	576	365*	880	762	1130	763	1090E	1850	704	27
28	459	4880	655	482	348	768	705	1190	779	1120E	1850	648	28
29	405	3800	661	520		640	609	1210	739	1150E	1840	611	29
30	381	---	641	504		635	412	1180	698	1200E	1820	562	30
31	334		600	469		687		1200		1260E	1830		31

MONTHLY

MEAN	363	NR	NR	587	570	483	631	830	771	847E	1457	1640
MAX	492	NR	NR	846	1480	880	840	1210	1340	1260E	1950E	2340
MIN	246	NR	NR	466	14	157	358	350	431	549	1050E	562
ACFT	2231	NR	NR	36080	31640	29720	37530	51020	45860	52050E	89610	97580

MEAN FLOW	INSTANTANEOUS FLOW	MAXIMUM FLOW	1984-85	INSTANTANEOUS MINIMUM FLOW	1984-85	TOTAL
NR	DATE	TIME	FLOW G.H.	DATE	TIME	ACRE FEET
NR		NR		NR		NR

REMARKS:

Station located 0.5 miles above mouth, 4.6 miles southeast of Knights Landing.

During low flows this represents combined flows of Sutter Bypass and Reclamation District 1500. During high flows (above approx. gage height 26.0 feet) the slough is entirely submerged as it lies within the bypass area. Sharp rises in the Sacramento River cause zero or negative flow.

Period of record for discharge is June 1924 to October 1939 (irrigation season only), and January 1940 to date. Period of record for gage height is April 1945 to December 1949 (irrigation season only), and April 1947 to date.

The datum for this station from 1945 to present is 0.00, USED.

FOR PERIOD OF RECORD BEGINNING 1947:

INSTANTANEOUS FLOW	MAXIMUM FLOW	1984-85	INSTANTANEOUS MINIMUM FLOW	1984-85	TOTAL
AVERAGE/YEAR					

E = Estimate. NR = No Record. * = Discharge measurement of observation of no flow.

F = Flooded.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: A05165 FEATHER RIVER NEAR GRIDLEY

LOCATION: LAT 39-22-00, LONG 121-38-48, T18N, R03E, SEC. 33, MD B&M

BUTTE COUNTY

DRAINAGE AREA: 3676 SQ MILES

HYDROLOGIC AREA: A-08.D0

WATER DAY	YEAR OCT	OCTOBER NOV	1984 DEC	through JAN	SEPTEMBER FEB	1985 MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1	2350	1680	2950	3590	2530	2420	1460	4130	5460	3960	4030	2080	1
2	2370	1940	3980	3580	2580	2330	1500	4500	5460	3980	4040	2020	2
3	2290	1910	4610	3580	2560	2290	1510	4480	5510	3990	3670	1960	3
4	2080	1900	5410	3380	2560	2310	1470	4490	5520	3970	3580	1790	4
5	1940	2070	5480	2560	2580	2350	1470	4460	5520	3800	3580	1640	5
6	1940	2280	5500	2450	2570	2360	1470	4480	5530	3470	3580	1670	6
7	1920	2250	5500	2440	2640	2360	1450	4420	5320	3440	3590	1660	7
8	1910	2290	5410	2440	2730	2340	1450	4420	5000	3270	3560	1670	8
9	1840	2270	5380	2450	2620	2330	1450	4460	4990	2950	3520	1680	9
10	1660	2280	5420	2440	2570	2330	1430	4470	4990	2920	3060	1660	10
11	1540	2300	5380	2450	2580	2260	1450	4470	4980	2910	3010	1640	11
12	1510	2250	5370	2440	2240	2080	1440	4400	4590	3160	3050	1650	12
13	1500	2300	5270	2420	2010	1850	1940	4210	4530	3710	3040	1670	13
14	1470	2250	5280	2420	1780	1650	2240	3870	4520	3760	3030	1650	14
15	1460	2230	5320	2440	1570	1530	2480	3580*	4500	3830	3050	1640	15
16	1510	2250	5280	2440	1880	1480	2790	2830	4540	4040	3070	1620	16
17	1500	2260	5280	2360	2410	1460	2760	2730	4780	4060	3090	1670	17
18	1490	2290	5280	2130	2500	1450	2750	2740	5090	4520	3030	1690	18
19	1500	2280	5280	1920	2740	1480	2760	3380	5070	4650	3060	1670	19
20	1490	2310	5290	1710	3930	1480	2800	3790	5070	4640	2620	1650	20
21	1480	2300	5310	1580	4610*	1460	2780	3800	5090	4640	2550*	1620	21
22	1490	2300	5320	1580	4630	1460	2790	3830	5050	4490	2550	1610	22
23	1500	2290	5280	1580	4550	1460	2340	4040	4990	4160	2550	1620	23
24	1500	2350	5350	1580	4510	1470	2230	4630	4540	4150	2550	1670	24
25	1500	2300	5380	1580	4500	1450	2190	4890	3990	4130	2530	1710	25
26	1520	2290	5320	1600	4450	1520	2210	4890	3960	4110	2510	2130	26
27	1490	2370	4470	1580	3660	1490	2650	4890	3950	4100	2520	2470	27
28	1500	2380	3700	1580	2700	1480	3170	5130	3960	4040	2500	2510	28
29	1510	2310	3620	1580		1480	3500	5480	3930	4080	2520	2530	29
30	1510	2320	3600	1970		1500	3870	5510	3950	4060	2490	2530	30
31	1500		3590	2060*		1490		5530		4040	2280		31

MONTHLY

MEAN	1670	2227	4955	2255	2971	1819	2193	4288	4813	3904	3026	1826
MAX	2370	2380	5500	3590	4630	2420	3870	5530	5530	4650	4040	2530
MIN	1460	1680	2950	1580	1570	1450	1430	2730	3930	2910	2280	1610
ACFT	102700	132500	304700	138700	165000	111900	130500	263700	286400	240100	186100	108700

MEAN FLOW	INSTANTANEOUS	MAXIMUM	FLOW, 1984-85		INSTANTANEOUS	MINIMUM	FLOW, 1984-85		TOTAL
	DATE	TIME	FLOW	G.H.	DATE	TIME	FLOW	G.H.	ACRE FEET
2998	May 30	1745	5620	77.20	October 17	1115	1350	74.88	2171000

REMARKS:

Station is located 2.7 miles east of Gridley on Oroville-Gridley Highway. Gage is located on the right bank upstream from highway bridge.

Period of record for discharge is 1944 to date. Gage heights only were published prior to 1944.

Prior to 1963, flows were tabulated excluding the left bank overflow. Flows have been regulated by Oroville dam releases since 1967.

The datum for this station from 1944 to present is -2.90, NGVD.

FOR PERIOD OF RECORD BEGINNING 1929:

INSTANTANEOUS	MAXIMUM	FLOW	GAGE	DATE	TIME
AVERAGE/YEAR		CFS	HEIGHT		NR
		151000	102.25	December 23, 1955	
		Not available.			

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

-75 -

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: A81810 MIDDLE CREEK NEAR UPPER LAKE

LOCATION: LAT 39-11-00, LONG 122-54-36, T15N, R10W, SEC. 01, MD B&M LAKE COUNTY

DRAINAGE AREA: 47.1 SQ MILES

HYDROLOGIC AREA: A-04.D5

WATER YEAR	OCTOBER	1984	through	SEPTEMBER	1985								
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1		0.0	100	23	7.0	1.4	185	12					1
2		0.0	101	20	9.3	0.8	150	9.1					2
3		0.0	118	18	8.5	0.3	123	7.5					3
4		0.0	93	20*	7.2	0.1	105*	7.5					4
5		0.0	91	22	8.5	4.3	90	7.2					5
6		0.0	75	21	8.7*	13	79	6.9					6
7		0.0	65	26	90	39*	70	5.6					7
8	N	0.0*	58	26	724	39	63	7.0*	N	N	N	N	8
9		0.0	53	23	232	41	58	8.9					9
10	O	0.0	82	22	141	172	53	7.5	O	O	O	O	10
11		44	86	19	108	136	49	7.3					11
12		182	72	19	94	93	45	6.8					12
13		357	63	16	81	77	42	5.8					13
14		105	58	15	68	64	39	4.9					14
15		75	67	12	60	56	37	3.4					15
16	F	175	64	10	54	52	36	1.9	F	F	F	F	16
17		102	57	12	49	47	34	0.6					17
18	L	120	53	16	44	45	33	0.0	L	L	L	L	18
19		76	48	15	41	41	30	0.0					19
20	O	62	44	14	38	37	30	0.0	O	O	O	O	20
21	W	52	42	13	34	35	32	0.0	W	W	W	W	21
22		41	39	12	32	34	28	0.0					22
23		38	38	12	30	33	22	0.0					23
24		203	36	11	28	40	19	0.0					24
25		103	34	10	23	34	19	0.0					25
26		70	38	9.6	8.0	116	18	0.0					26
27		239	37	9.5	4.2	258	18	0.0					27
28		337	33	10	2.8	234	16	0.0					28
29		185	31	9.9		208	14	0.0					29
30		126	25	8.5		208	13	0.0					30
31			24	7.5		215		0.0					31
MONTHLY													
MEAN	0.0	89.7	58.9	15.5	72.7	76.6	51.7	3.5	0.0	0.0	0.0	0.0	
MAX	0.0	357	118	26	724	258	185	12	0.0	0.0	0.0	0.0	
MIN	0.0	0.0	24	7.5	2.8	0.1	13	0.0	0.0	0.0	0.0	0.0	
ACFT	0	5340	3620	956	4037	4709	3074	218	0	0	0	0	
MEAN	INSTANTANEOUS	MAXIMUM FLOW,	1984-85	INSTANTANEOUS	MINIMUM FLOW,	1984-85	TOTAL						
FLOW	DATE	TIME	FLOW G.H.	DATE	TIME	FLOW G.H.	ACRE FEET						
30.3	February 8	0530	1280 08.78	October 1	0015	0.0 05.10	21954						

REMARKS:

Station located at Rancheria Road bridge, 1.3 miles north of Upper Lake. Tributary to Clear Lake.

Flow affected by upstream diversion.

Bottom control structure installed October 18, 1983.

Period of record for discharge is October 1948 to September 1953, March 1959 to September 1959, August 1962 to date. Period of record for gage height is October 1948 to date.

The datum for this station from 1959 to 1962 is 1353.60, USGS.
The datum for this station from 1962 to present is 0.00, local.

FOR PERIOD OF RECORD BEGINNING 1959:

INSTANTANEOUS	MAXIMUM	CFS	GAUGE	DATE	TIME
AVERAGE/YEAR		6800E	HEIGHT	December 22, 1964	1210
		Not available.			

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: A85701 KELSEY CREEK AT GLENBROOK

LOCATION: LAT 38-51-07, LONG 122-45-23, T12N, R08W, SEC. 33, MD B&M LAKE COUNTY

DRAINAGE AREA: 6.7 SQ MILES

HYDROLOGIC AREA: A-04.D4

WATER YEAR DAY	OCT	OCTOBER NOV	1984 DEC	through JAN	SEPTEMBER FEB	1985 MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1	3.8	4.8	16	7.8	5.4	5.6	14	4.6	3.6	2.5	1.9*	1.6	1
2	3.8	11	33	7.5	5.2	5.5	13	4.5	3.8	2.4	1.8	1.8	2
3	3.8*	6.1	26	7.4*	5.1	5.5	12	4.5	3.6	2.3	1.7	1.9	3
4	3.7	5.2	19	7.3	5.0	5.6	11*	4.5	4.0	2.2	1.8	1.8	4
5	3.7	5.0	17*	7.1	4.9	6.0	9.9	4.3	3.3*	2.3	1.7	1.9*	5
6	3.8	7.5	15	7.0	5.0*	6.7	9.6	4.3	3.1	2.1	1.8	1.8	6
7	3.9	6.8	13	13	36	7.7*	9.2	4.3	3.1	2.3	1.7	2.5	7
8	3.9	8.9*	12	9.5	132	9.2	8.8	4.2*	3.0	2.4*	1.6	3.3	8
9	3.8	6.2	12	9.3	31	11	8.5	4.3	2.9	2.2	1.5	3.4	9
10	7.3	11	34	8.7	20	67	7.8	4.4	2.8	2.2	1.6	2.7	10
11	5.6	20	20	8.1	16	27	7.4	4.4	2.7	2.2	1.6	2.6	11
12	4.2	70	16	7.8	14	19	7.2	4.2	2.7	2.2	1.6	2.5	12
13	4.1	71	14	7.5	12	15	6.9	4.0	2.6	2.1	1.7	2.5	13
14	4.1	17	12	7.2	10	13	6.7	3.9	2.7	2.0	1.4	2.5	14
15	4.0	28	14	7.0	9.7	12	6.6	3.9	2.7	2.0	1.5	2.4	15
16	6.4	45	12	6.6	9.1	11	6.5	3.8	2.6	2.0	1.6	2.3	16
17	5.0	19	11	6.4	8.4	10	6.4	3.9	2.6	2.0	1.6	2.3	17
18	4.6	17	11	6.3	8.0	9.6	6.3	3.9	2.6	1.9	1.8	2.4	18
19	4.8	12	10	6.2	7.6	9.0	6.0	3.7	2.5	1.9	1.7	2.5	19
20	4.5	12	9.6	6.1	7.3	8.5	6.1	3.5	2.6	2.1	1.7	2.3	20
21	4.4	10	9.1	6.0	6.9	8.2	6.5	3.5	2.5	2.2	1.6	2.3	21
22	4.3	9.3	8.7	5.9	6.6	8.0	6.0	3.5	2.5	2.1	1.6	2.2	22
23	4.2	9.1	8.5	5.8	6.4	7.7	5.7	3.5	2.6	2.0	1.6	2.2	23
24	4.2	22	8.3	5.7	6.2	8.3	5.4	3.4	2.6	1.9	1.5	2.2	24
25	4.2	12	8.2	5.6	6.1	7.6	5.3	3.3	2.4	1.8	1.5	2.3	25
26	4.3	11	9.8	5.6	5.9	48	5.4	3.5	2.4	1.9	1.5	2.5	26
27	4.5	129	9.8	5.5	5.7	43	5.1	3.8	2.4	1.9	1.5	2.5	27
28	4.8	55	9.1	5.5	5.6	29	5.2	3.9	2.4	1.8	1.6	2.5	28
29	5.1	27	8.5	5.5		20	5.1	3.9	2.4	2.0	1.5	2.6	29
30	5.0	19	8.3	5.5		17	4.9	3.8	2.4	2.0	1.6	2.5	30
31	4.8		8.2	5.4		15		3.6		2.0	1.5		31

MONTHLY

MEAN	4.5	22.9	13.6	7.0	14.3	15.3	7.5	4.0	2.8	2.1	1.6	2.4
MAX	7.3	129	34	13	132	67	14	4.6	4.0	2.5	1.9	3.4
MIN	3.7	4.8	8.2	5.4	4.9	5.5	4.9	3.3	2.4	1.8	1.4	1.6
ACFT	275	1362	839	428	795	944	445	244	167	129	100	140

MEAN FLOW	INSTANTANEOUS DATE	MAXIMUM TIME	FLOW, FLOW	1984-85 G.H.	INSTANTANEOUS DATE	MINIMUM TIME	FLOW, FLOW	1984-85 G.H.	TOTAL ACRE FEET
8.1	November 27	1245	442	08.36	August 09	2015	1.1	4.83	5869

REMARKS:

Station located approximately 300 feet upstream from Bottle Rock Road crossing, 3.0 miles northwest of Cobb. Tributary to Clear Lake.

Period of record for discharge is December 1980 to date.

Period of record for gage height is same as discharge.

The datum for this station from 1981 to present is 2290.00, USCGS.

FOR PERIOD OF RECORD BEGINNING 1980:

INSTANTANEOUS MAXIMUM AVERAGE/YEAR	FLOW CFS	GAUGE HEIGHT	DATE	TIME
	1690	10.82	January 26, 1983	1800
	Not available			

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: A85710 ALDER CREEK AT GLENBROOK

LOCATION: LAT 38-51-06, LONG 122-45-24, T12N, R08W, SEC. 33, MD B&M LAKE COUNTY

DRAINAGE AREA: 3.0 SQ MILES

HYDROLOGIC AREA: A-04.D4

WATER YEAR	OCT	OCTOBER	1984 through	SEPTEMBER 1985	APR	MAY	JUN	JUL	AUG	SEP	DAY
DAY			DEC	JAN	FEB	MAR					
1	1.1	.5	8.9	2.9	1.9	3.1	8.0	2.4	1.4	.6	1
2	1.1	3.9	11	2.8	2.1	3.0	7.4	2.4	1.4	.6*	2
3	1.1*	1.1	12	2.7*	2.0	3.0	6.8	2.3	1.3	.7	3
4	1.1	.6	9.7	2.5	1.9	3.2	6.5*	2.3	1.3	.6	4
5	1.0	.6	8.9*	2.5	1.9	3.3	6.1	2.2	1.3*	.6	5
6	1.0	1.8	7.7	2.4	1.9*	3.6	5.8	2.2	1.2	.6	6
7	1.0	1.1	6.9	4.0	11	4.0*	5.5	2.1	1.2	.6	7
8	.9	2.4*	6.2	3.4	56	4.5	5.3	2.1*	1.1	.5*	8
9	.9	1.0	5.8	3.4	18	5.5	5.0	2.2	1.0	.5	9
10	2.2	2.9	13	3.2	12	29	4.8	2.2	.9	.6	10
11	1.5	8.2	11	3.1	9.0	19	4.6	2.1	1.0	.7	11
12	.9	29	9.0	2.9	7.6	13	4.4	2.1	.9	.6	12
13	.8	30	7.4	2.8	6.7	11	4.2	2.0	.9	.6	13
14	.8	7.6	6.6	2.6	5.9	9.1	4.1	2.0	.8	.5	14
15	.8	8.4	6.8	2.5	5.4	7.8	4.0	1.9	.8	.5	15
16	2.3	16	6.1	2.5	5.1	6.9	3.9	2.0	.8	.5	16
17	1.1	8.8	5.4	2.4	4.8	6.2	3.9	2.0	.8	.5	17
18	.8	7.4	5.1	2.4	4.6	5.8	3.6	1.9	.8	.5	18
19	.9	5.3	4.7	2.3	4.4	5.3	3.5	1.7	.7	.5	19
20	.8	4.7	4.4	2.2	4.2	5.1	3.5	1.7	.7	.6	20
21	.6	3.8	4.1	2.2	4.0	4.8	3.4	1.7	.7	.5	21
22	.6	3.3	3.8	2.1	3.8	4.6	3.1	1.6	.8	.5	22
23	.5	3.2	3.6	2.1	3.6	4.4	3.1	1.5	.7	.5	23
24	.5	7.7	3.5	2.1	3.5	4.7	2.9	1.5	.7	.4	24
25	.6	5.0	3.3	2.1	3.5	4.2	2.9	1.5	.7	.4	25
26	.6	4.1	4.2	2.1	3.3	16	2.8	1.5	.7	.5	26
27	.6	43	3.9	2.1	3.3	21	2.7	1.5	.6	.5	27
28	.8	31	3.6	2.1	3.2	18	2.6	1.6	.6	.4	28
29	.7	15	3.4	1.9	13	2.6	1.6	.7	.6	.5	29
30	.6	11	3.3	1.9	11	2.5	1.4	.6	.7	.5	30
31	.6		3.2	1.9		9.1	1.4		.8	.5	31
MONTHLY											
MEAN	.9	8.9	6.3	2.5	7.0	8.5	4.3	1.9	.9	.6	.9
MAX	2.3	43	13	4.0	56	29	8.0	2.4	1.4	.8	2.3
MIN	.5	.5	3.2	1.9	1.9	3.0	2.5	1.4	.6	.4	.5
ACFT	57	532	390	155	386	520	257	116	54	35	55

MEAN FLOW	INSTANTANEOUS DATE	MAXIMUM FLOW, 1984-5	TIME	FLOW G.H.	INSTANTANEOUS DATE	MINIMUM FLOW, 1984-5	TIME	FLOW G.H.	TOTAL ACRE FEET
3.6	November 27	1315	121	3.88	July 08	2045	0.0	1.63	2589

REMARKS:

Station located 200 feet upstream from confluence with Kelsey Creek, 3.1 miles northwest of Cobb. Tributary to Clear Lake via Kelsey Creek.

Station installed October 1980. Period of record for discharge is October 1982 to date. Period of record for gage height is same as discharge.

FOR PERIOD OF RECORD BEGINNING 1983:

INSTANTANEOUS MAXIMUM AVERAGE/YEAR	FLOW CFS	GAUGE HEIGHT	DATE	TIME
	344	5.73	January 26, 1983	1715
	Not Available			

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: A85005 KELSEY CREEK BELOW KELSEYVILLE

LOCATION: LAT 39-00-34, LONG 122-50-14, T13N, R09W, SEC. 03, MD B&M LAKE COUNTY

DRAINAGE AREA: 44.3 SQ MILES HYDROLOGIC AREA: A-04.D4

WATER YEAR	OCTOBER	1984 through	SEPTEMBER	1985										
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY	
1	0.0	0.0	60	23	13	18	73	11	0.0	0.0	0.0*	0.0	1	
2	0.0	0.0	63	23*	13	18	65	11	0.0	0.0	0.0	0.0	2	
3	0.0	9.9	88	22	13	18	59*	10	0.0	0.0	0.0	0.0	3	
4	0.0	1.2	60*	21	12	18	53	10	0.0*	0.0	0.0	0.0	4	
5	0.0	0.0	56	21	12*	22	48	10	0.0	0.0	0.0	0.0*	5	
6	0.0	0.1	48	20	12	29*	44	8.8	0.0	0.0	0.0	0.0	6	
7	0.0	2.8*	42	28	36	43	41	8.3*	0.0	0.0	0.0	0.0	7	
8	0.0	8.8	39	30	1240	44	38	8.1	0.0	0.0	0.0	0.0	8	
9	0.0	8.5	36	25	170	58	36	7.4	0.0	0.0*	0.0	0.0	9	
10	0.0	9.9	85	25	90	427	34	7.2	0.0	0.0	0.0	0.0	10	
11	0.0	65	93	23	63	212	31	7.1	0.0	0.0	0.0	0.0	11	
12	0.0	172	62	22	51	113	30	6.3	0.0	0.0	0.0	0.0	12	
13	0.0	495	51	21	43	85	28	5.6	0.0	0.0	0.0	0.0	13	
14	0.0	74	45	20	37	69	27	4.9	0.0	0.0	0.0	0.0	14	
15	0.0	55	45	20	33	58	25	4.3	0.0	0.0	0.0	0.0	15	
16	0.0	121	43	19	31	50	25	3.7	0.1	0.0	0.0	0.0	16	
17	0.0	65	37	18	28	44	24	3.7	0.0	0.0	0.0	0.0	17	
18	0.0	68	35	18	26	41	23	3.1	0.0	0.0	0.0	0.0	18	
19	0.0	45	33	18	25	37	21	1.9	0.0	0.0	0.0	0.0	19	
20	0.0	41	31	17	23	34	21	0.8	0.0	0.0	0.0	0.0	20	
21	0.0	37	29	17	22	31	22	0.2	0.0	0.0	0.0	0.0	21	
22	0.0	31	27	16	21	30	20	0.0	0.0	0.0	0.0	0.0	22	
23	0.0	29	26	16	20	28	18	0.0	0.0	0.0	0.0	0.0	23	
24	0.0	64	25	16	20	31	17	0.0	0.0	0.0	0.0	0.0	24	
25	0.0	47	25	15	19	28	16	0.0	0.0	0.0	0.0	0.0	25	
26	0.0	38	33	15	19	254	15	0.0	0.0	0.0	0.0	0.0	26	
27	0.0	499	35	14	19	272	15	0.0	0.0	0.0	0.0	0.0	27	
28	0.0	327	30	14	18	203	14	0.0	0.0	0.0	0.0	0.0	28	
29	0.0	113	27	14		128	13	0.0	0.0	0.0	0.0	0.0	29	
30	0.0	76	25	13		99	12	0.0	0.0	0.0	0.0	0.0	30	
31	0.0		25	13		83		0.0		0.0	0.0		31	
MONTHLY														
MEAN	0.0	83.4	43.8	19.3	76.0	84.7	30.3	4.3	0.0	0.0	0.0	0.0		
MAX	0.0	499	93	30	1240	427	73	11	0.1	0.0	0.0	0.0		
MIN	0.0	0.0	25	13	12	18	12	0.0	0.0	0.0	0.0	0.0		
ACFT	0	4965	2696	1184	4223	5207	1801	265	0	0	0	0		
MEAN FLOW	INSTANTANEOUS	MAXIMUM FLOW, 1984-85												
28.1	DATE	TIME	FLOW	G.H.	DATE	TIME	FLOW	G.H.					TOTAL	
	February 08	0630	3180	40.42	October 01	0015	0.0	26.71					ACRE FEET	
													20341	

REMARKS:

Station located approximately 500 feet upstream of Soda Bay Road bridge, 3.5 miles north of Kelseyville. Tributary to Clear Lake.

Period of record for discharge is November 1980 to date.
Period of record for gage height is same as discharge.

The datum for this station from 1981 to present is 1300.0, USCGS.

FOR PERIOD OF RECORD BEGINNING 1980:

INSTANTANEOUS MAXIMUM	FLOW	GAGE	DATE	TIME
AVERAGE/YEAR	CFS	HEIGHT		
	9280	48.94	January 26, 1983	1715
	Not available			

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: A85610 HIGH VALLEY CREEK ABOVE KELSEY CREEK

LOCATION: LAT 38-52-07, LONG 122-47-36, T12N, R08W, SEC. 19, MD B&M

LAKE COUNTY

DRAINAGE AREA: Not available

HYDROLOGIC AREA: A-04.04

WATER DAY	YEAR OCT	OCTOBER NOV	1984 DEC	through JAN	SEPTEMBER FEB	1985 MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1	0.5	1.1	9.1	3.2	NR	2.6	10	2.2	1.3	0.5	0.4*	0.3	1
2	0.4	4.1	10	3.0	NR	2.6	8.8	2.2	1.3	0.5	0.4	0.3	2
3	0.4*	1.3	9.1	2.8*	NR	2.5	7.8	2.1	1.2	0.5	0.4	0.3	3
4	0.5	0.9	7.3	2.7	NR	2.6	7.0*	2.1	1.2	0.5	0.3	0.3	4
5	0.5	0.8	6.9*	2.6	NR	3.0	6.3	2.0	1.1*	0.5	0.3	0.3	5
6	0.5	1.5	5.7	NR	1.7*	3.6	5.8	1.9	1.1	0.4	0.3	0.3*	6
7	0.5	1.3	5.1	NR	21	4.2	5.4	1.9	1.0	0.4	0.3	0.5	7
8	0.5	3.0*	4.6	NR	146 E	5.8	5.0	1.8*	1.0	0.4	0.3	1.0	8
9	0.5	1.8	4.4	NR	33	9.0	4.7	1.8	1.0	0.4	0.4	0.8	9
10	1.1	5.1	18	NR	18	70	4.4	1.8	0.9	0.4	0.3	0.5	10
11	0.8	14	16	NR	12	40	4.2	1.7	0.9	0.4	0.3	0.4	11
12	0.6	52	12	NR	9.3	23	3.9	1.7	0.8	0.4	0.3	0.5	12
13	0.6	64 E	8.8	NR	7.7	16	3.7	1.7	0.8	0.4	0.3	0.5	13
14	0.6	12	7.4	NR	6.5	12	3.6	1.6	0.8	0.4	0.3	0.5	14
15	0.6	9.5	8.1	NR	5.7	9.8	3.5	1.5	0.8	0.4	0.3	0.5	15
16	1.7	20	6.5	NR	5.2	8.1	3.4	1.6	0.8	0.4	0.3	0.5	16
17	1.0	11	5.7	NR	4.7	7.0	3.4	1.6	0.7	0.4	0.3	0.5	17
18	0.8	10	5.4	NR	4.3	6.2	3.2	1.6	0.7	0.4	0.4	0.5	18
19	0.8	6.4	4.9	NR	4.0	5.4	3.1	1.5	0.7	0.4	0.4	0.5	19
20	0.8	6.4	4.3	NR	3.8	5.0	3.1	1.4	0.7	0.4	0.4	0.5	20
21	0.7	4.8	3.9	NR	3.5	4.6	3.2	1.3	0.7	0.5	0.3	0.5	21
22	0.7	3.9	3.6	NR	3.2	4.2	3.0	1.3	0.6	0.4	0.3	0.4	22
23	0.7	3.7	3.5	NR	3.1	4.0	2.8	1.4	0.6	0.4	0.3	0.4	23
24	0.7	11	3.3	NR	3.0	4.5	2.6	1.4	0.6	0.3	0.3	0.4	24
25	0.7	6.5	3.3	NR	2.9	3.9	2.6	1.4	0.6	0.3	0.3	0.5	25
26	0.8	5.0	4.6	NR	2.9	37	2.6	1.3	0.6	0.3	0.3	0.5	26
27	0.8	84 E	4.4	NR	2.8	47	2.5	1.3	0.6	0.3	0.3	0.5	27
28	0.9	55	3.9	NR	2.6	38	2.4	1.4	0.6	0.3	0.3	0.6	28
29	1.0	21	3.5	NR	2.3	23	2.3	1.4	0.5	0.4	0.3	0.5	29
30	1.0	13	3.5	NR	16	2.3	2.3	1.3	0.5	0.4	0.3	0.6	30
31	1.1		3.4	NR	13			1.3		0.4	0.2		31
MONTHLY													
MEAN	0.7	14.5	6.5	NR	NR	14.0	4.2	1.6	0.8	0.4	0.3	0.5	
MAX	1.7	84 E	18	NR	NR	70	10	2.2	1.3	0.5	0.4	1.0	
MIN	0.4	0.8	3.3	NR	NR	2.5	2.3	1.3	0.5	0.3	0.2	0.3	
ACFT	45	861	397	NR	NR	860	251	100	49	25	20	29	
MEAN	INSTANTANEOUS MAXIMUM FLOW, 1984-85												
FLOW	DATE	TIME	FLOW	G.H.	DATE	TIME	FLOW	G.H.	DATE	TIME	FLOW	G.H.	TOTAL
NR				NR	SEPTEMBER 6	0915	0.0	17.00					ACRE FEET
													NR

REMARKS:

Station located approximately 300 feet upstream from confluence with Kelsey Creek, 6.0 miles northwest of Cobb. Tributary to Kelsey Creek.

Period of record for discharge is November 1980 to date.

Period of record for gage height is same as discharge.

The datum for this station from 1981 to present is 2000.00, USCGS.

FOR PERIOD OF RECORD BEGINNING 1980:

INSTANTANEOUS MAXIMUM	FLOW	GAGE	DATE	TIME
AVERAGE/YEAR	CFS	HEIGHT		
	1820	22.61	January 26, 1983	1700
	Not available			

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: A81250 BEAR CREEK NEAR RUMSEY

LOCATION: LAT 38-56-43, LONG 122-20-43, T13N, R04W, SEC. 30, MD B&M COLUSA COUNTY

DRAINAGE AREA: 99.9 SQ MILES

HYDROLOGIC AREA: A-04.B0

WATER YEAR	OCTOBER	1984	through	SEPTEMBER	1985											
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY			
1	1.3	2.3	23	14	8.6	13	32	7.3	4.4	1.1	0.9*	0.8	1			
2	1.4*	2.3	21	14*	8.4	13	27	7.3	4.4	1.1	1.0	0.8	2			
3	1.5	2.7	165	14	7.9	12	25*	6.9	4.4	1.1	0.9	0.9	3			
4	1.6	3.1	66*	13	7.8	12	22	7.1	4.3*	1.0	0.8	1.0	4			
5	1.7	2.5	42	13	7.3*	14	19	7.2	3.9	0.9	0.7	1.0*	5			
6	1.7	2.9*	33	13	7.2	23*	18	6.9	3.5	0.9	0.7	1.0	6			
7	1.7	3.2	23	21	10	31	17	6.7*	3.3	0.8	0.7	1.0	7			
8	1.7	6.2	19	28	945	20	16	6.5	3.2	0.8	0.6	1.5	8			
9	1.7	5.9	16	18	168	16	15	6.3	3.2	0.7	0.6	1.8	9			
10	2.0	4.2	135	16	83	65	15	6.3	2.8	0.7	0.6	2.1	10			
11	3.2	11	87	14	53	130	14	6.7	2.3	0.8	0.6	1.8	11			
12	2.8	10	43	13	41	54	14	7.2	2.0	1.0	0.6	1.3	12			
13	2.1	149	29	13	34	31	13	6.7	1.9	1.1	0.5	1.3	13			
14	1.9	66	23	13	29	23	13	6.2	1.8	1.0	0.5	1.2	14			
15	1.8	16	23	12	25	19	12	5.7	1.8	0.9E	0.5	1.3	15			
16	2.7	103	22	12	24	17	12	5.5	1.8	0.9E	0.6	1.2	16			
17	4.4	93	18	11	22	15	12	5.4	1.6	0.9E	0.6	1.2	17			
18	3.4	38	17	11	20	18	12	5.4	1.5	0.9E	0.8	1.1	18			
19	2.8	18	17	11	18	19	12	5.4	1.4	0.9E	0.9	1.1	19			
20	2.6	12	16	11	17	15	11	5.1	1.4	0.9E	1.0	1.0	20			
21	2.4	12	15	10	16	14	12	5.0	1.4	0.9E	0.9	1.0	21			
22	2.3	7.4	14	10	15	13	13	4.7	1.3	0.9E	0.9	1.0	22			
23	2.1	5.7	14	9. 8	15	13	12	4.5	1.3	0.9E	0.8	1.0	23			
24	2.0	24	15	9. 5	14	13	11	4.3	1.3	0.9E	0.8	1.0	24			
25	1.8	38	14	9. 2	14	13	9.9	4.3	1.1	0.9E	0.8	1.0	25			
26	1.9	13	17	9.1	14	58	8.1	4.3	1.1	0.9E	0.8	1.0	26			
27	1.9	261	23	9.0	14	232	7.3	4.3	1.1	0.9E	0.7	1.0	27			
28	1.9	328	19	8.9	13	198	6.8	4.5	1.2	0.9E	0.7	1.0	28			
29	2.2	93	16	8.8		90	6.7	4.8	1.2	0.9E	0.6	1.1	29			
30	2.4	41	15	8.4		53	7.1	4.7	1.0	0.9E	0.6	1.1	30			
31	2.4		15	8.0		40		4.6		0.9E	0.8		31			
MONTHLY																
MEAN	2.2	45.8	32.7	12.4	59.2	41.8	14.2	5.7	2.2	0.9E	0.7	1.2				
MAX	4.4	328	165	28	945	232	32	7.3	4.4	1.1	1.0	2.1				
MIN	1.3	2.3	14	8.0	7.2	12	6.7	4.3	1.0	0.7	0.5	0.8				
ACFT	133	2726	2013	765	3275	2573	843	353	133	56E	45	69				
MEAN INSTANTANEOUS MAXIMUM FLOW, 1984-85																
FLOW	DATE	TIME	FLOW	G.H.												
17.9	February 08	0700	2340	6.20			August 13	0615	0.5	0.36		12984				
INSTANTANEOUS MINIMUM FLOW, 1984-85																
DATE	TIME	FLOW	G.H.													
January 23, 1963		2245														
TOTAL ACRE FEET																

REMARKS:

Station located 7.3 miles northwest of Rumsey, 1.4 miles above mouth.
Tributary to Cache Creek.

Station was destroyed on January 26, 1983 and was re-established on September 30, 1983.

Period of record for discharge is September 1955 to date.

Period of record for gage height is same as discharge.

The datum for this station from 1955 to present is 0.0, local.

FOR PERIOD OF RECORD BEGINNING 1955:

FLOW	GAGE	DATE	TIME
CFS	HEIGHT		
INSTANTANEOUS MAXIMUM	9780E 11.44	January 23, 1963	2245
AVERAGE/YEAR	Not Available		

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: A81135 CACHE CREEK AT RUMSEY
LOCATION: LAT 38-53-25, LONG 122-14-13, T12N, R03W, SEC. 18, MD B&M YOLO COUNTY
DRAINAGE AREA: 964.0 SQ MILES HYDROLOGIC AREA: A-02.CO

WATER YEAR	OCTOBER	1984 through	SEPTEMBER	1985									
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1	121	20	273	180	56	68	215	692	579	814	526	279	1
2	109	20	261	103	59	65	199	875	555	802	515	286	2
3	108	22	451	61	60	65	172	837	578	802	501	287	3
4	95	26	337	58	59	63	131	841	577	792	490	280	4
5	59	23	291	57	58	67	164	855	599	810	486	305	5
6	60	25	278	56	57	102	201	774	708	821	485	300	6
7	61	27*	343	70	73	155	194	788	697	811	489	298	7
8	60	44	251	109	2040*	120	187	754	639	794	526	296	8
9	58	60	237	89	564	100	266*	712	658	811	499	296	9
10	60	38	380	83	321	182	375	701	696	829	477	268	10
11	73	130	349	70	251	368	472	657	685	821	450	245	11
12	37	155	290	62	219	231	543	590	831	807	457	262	12
13	30	439	267	61	198	185*	565	571	823	799	477*	244	13
14	30	266	252	63	181	150	581	563	885	791	459	324	14
15	30	162	250	60	158	124	576	556	896	787	434	330	15
16	23	340	253	58*	143	107	556	573	862	762	416	333	16
17	27	279	242	56	132	96	534	624	831	740*	398	307	17
18	25	193	216	55	119	97	530	625	783	738	386	239	18
19	23	134	207	55	109	90	523	618	784	729	381	218	19
20	23	98	201	56	100	80	527	594	798	714	363	221	20
21	21	85	200	57	92	72	562	597	814	695	377	214	21
22	21	64	190	56	86	67	572	623	853	682	375	140	22
23	21*	53	190	55	80	63	561	639	836	656	375	89	23
24	19*	119	189	55	77	101	567	647	811	618	355	78	24
25	16	220	188	55	74	148	577	625	782	594	334	64	25
26	14	118	195	54	72	236	569	627	787	617	325	51	26
27	14	582	204	55	71	561	556	627	809	601	323	42	27
28	17	1030*	200	57	69	433	585	622	828	595	309	45	28
29	18	411	195	57		297	607	594	809	599	310	40	29
30	20	308	190	57		243	598	569	806	588	290	20	30
31	20		184	56		222		567		544	285		31
MONTHLY													
MEAN	42.4	183	250	67.0	199	160	442	662	753	728	415	213	
MAX	121	1030	451	180	2040	561	607	875	896	829	526	333	
MIN	14	20	184	54	56	63	131	556	555	544E	285	20	
ACFT	2604	10890	15380	4118	11060	9834	26310	40730	44820	44750	25530	12700	
MEAN													
FLOW	DATE	TIME	FLOW	G.H.	DATE	TIME	FLOW	G.H.	DATE	TIME	FLOW	G.H.	TOTAL
344	February 08	0930	4080	15.14	October 27	0015	12	10.65					248726

REMARKS:

Station is located on Downstream side of Arbuckle Road Bridge, 800 feet north of Rumsey.

Prior to 1976, station was operated as a high flow warning site. Cache Creek was previously measured at station A81200 (Cache Creek Above Rumsey).

Flows are regulated by Indian Creek Reservoir.

Period of record for discharge is December 1976 to date.

The datum for this station from 1976 to present is 0.00, LOCAL.

FOR PERIOD OF RECORD BEGINNING 1945:

INSTANTANEOUS MAXIMUM	FLOW	GAGE	DATE	TIME
AVERAGE/YEAR	CFS	HEIGHT		
	74800E	27.88	January 26, 1983	NR
	Not available			

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: A95010 POPE CREEK NEAR POPE VALLEY

LOCATION: LAT 38-37-48, LONG 122-19-52, T09N, R04W, SEC. 17, MD B&M

NAPA COUNTY

DRAINAGE AREA: 78.3 SQ MILES

HYDROLOGIC AREA: A-03.A4

WATER DAY	YEAR OCT	OCTOBER NOV	1984 through DEC	SEPTEMBER JAN	1985 FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1	0.0	0.0	51	NR	18	28	55						1
2	0.0	0.7	65	NR	18	28	48						2
3	0.0	0.9	233	NR	18	28	42						3
4	0.0	0.3	62	NR	18	28	NR						4
5	0.0	0.1	48	NR	17	28	NR						5
6	0.0	1.5*	43*	NR	17	29	NR						6
7	0.0	3.4	47	NR	144	67	NR						7
8	0.0	11	43	NR	3140	57	NR	N	N	N	N	N	8
9	0.0	12	40	NR	464	40	NR						9
10	1.6	13	98	NR	159	68	NR	O	O	O	O	O	10
11	4.2	102	57	27	90	NR	NR						11
12	0.5	113	45	20	72	NR	NR						12
13	0.2	414	47	21	62	NR	NR						13
14	0.1	38	42	29	54	NR	NR						14
15	0.0	57	43	28	* 48	NR	NR	R	R	R	R	R	15
16	5.3	507	48	26	44	NR	NR	E	E	E	E	E	16
17	2.2*	79	40	24	40	NR	NR						17
18	0.4	72	37	24	36	NR	NR	C	C	C	C	C	18
19	0.2	42	35	22	33	NR	NR						19
20	0.2	33	32	22	31	NR	NR	O	O	O	O	O	20
21	0.1	29	30	21	29	NR	NR	R	R	R	R	R	21
22	0.1	23	28	20	29	NR	NR						22
23	0.1	20	27	20	29	NR	NR	D	D	D	D	D	23
24	0.0	192	26	20	29	NR	NR						24
25	0.0	61	25	19	29	NR	NR						25
26	0.0	40	29	19	29	NR	NR						26
27	0.0	568	NR	19	29	725	NR						27
28	0.0	650	NR	19	28	454	NR						28
29	0.1	117	NR	19		159	NR						29
30	0.1	58	NR	18		91	NR						30
31	0.0		NR	18		65							31
MONTHLY													
MEAN	.5	109	NR	NR	170	NR	NR	NR	NR	NR	NR	NR	
MAX	5.3	650	NR	NR	3140	NR	NR	NR	NR	NR	NR	NR	
MIN	0.0	0.0	NR	NR	17	NR	NR	NR	NR	NR	NR	NR	
ACFT	31	6462	NR	NR		NR	NR	NR	NR	NR	NR	NR	

MEAN	INSTANTANEOUS	MAXIMUM FLOW, 1984-85	INSTANTANEOUS	MINIMUM FLOW, 1984-85	TOTAL
FLOW	DATE	TIME FLOW G.H.	DATE	TIME FLOW G.H.	ACRE FEET
NR		NR	October 1	0015 0.0 2.04	NR

REMARKS:

Station is located on left bank of Pope Creek, 0.2 miles upstream from Lake Berryessa, 5.2 miles east of Pope Valley.

Tributary to Lake Berryessa. Maximum discharge recorded on January 31, 1963 was estimated by extending rating curve above 7700 cfs.

Station discontinued on 04/04/85.

Period of record for discharge is December 1960 to April 1985.

The datum for this station from 1960 to present is 0.00, LOCAL.

FOR PERIOD OF RECORD BEGINNING 1960:

INSTANTANEOUS	MAXIMUM	GAGE	DATE	TIME
AVERAGE/YEAR		HEIGHT		
	18000E	19.79	January 31, 1963	NR
	Not available.			

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: A02903 SACRAMENTO WEIR SPILL TO YOLO BYPASS

LOCATION: LAT 38-36-25, LONG 121-33-15, T09N, R04E, SEC. 28, MD B&M YOLO COUNTY

DRAINAGE AREA: Not available HYDROLOGIC AREA: A-02.B0

WATER YEAR OCTOBER 1984 through SEPTEMBER 1985

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8	N	N	N	N	N	N	N	N	N	N	N	N	8
9													9
10	O	O	O	O	O	O	O	O	O	O	O	O	10
11													11
12													12
13													13
14													14
15													15
16	F	F	F	F	F	F	F	F	F	F	F	F	16
17													17
18	L	L	L	L	L	L	L	L	L	L	L	L	18
19													19
20	O	O	O	O	O	O	O	O	O	O	O	O	20
21	W	W	W	W	W	W	W	W	W	W	W	W	21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31

MONTHLY

MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAX	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ACFT	0	0	0	0	0	0	0	0	0	0	0	0

MEAN FLOW	INSTANTANEOUS FLOW	MAXIMUM FLOW, 1984-85	DATE	INSTANTANEOUS FLOW	MINIMUM FLOW, 1984-85	DATE	TOTAL ACRE FEET
0.0	October 01	0015	0.0	NR	October 01	0015	0.0

REMARKS:

Station located 0.5 mile north of Bryte along Highway 16 (River Road). Sacramento Weir diverts flood waters from the Sacramento River in a westerly direction to the Yolo Bypass.

The Sacramento Weir is a fixed weir with 48 removable gates which are used to control Sacramento River flows by diverting floodwaters to Yolo Bypass. Flows computed using Sacramento River above Sacramento Weir gage.

Period of record for discharge is 1926 to date.

The datum for this station is not relevant.

FOR PERIOD OF RECORD BEGINNING 1926:

INSTANTANEOUS MAXIMUM	FLOW	GAGE HEIGHT	DATE	TIME
118000E	CFS	32.80	March 26, 1928	NR
AVERAGE/YEAR	Not available.			

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: A00041 DRY CREEK BELOW ROSEVILLE

LOCATION: LAT 38-44-03, LONG 121-17-57, T10N, R06E, SEC. 10, MD B&M PLACER COUNTY

DRAINAGE AREA: Not available HYDROLOGIC AREA: A-05.B1

WATER YEAR	OCTOBER	1984 through	SEPTEMBER	1985									
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1	57	36	87	49	48	49	71	29	35	19	29	26	1
2	57	41	97	46	92	88	67	26	61	18	28	26	2
3	46	42	176	46	69	63	57	26	62	17	26	30	3
4	35	37	105	49	57	69	52	26	46	14	24	31	4
5	36	30	90	53	48	92	47	25	32	15	20	30	5
6	35	96	83	55	45	213	48	24	24	14	17	30	6
7	25	88	75*	89	93	378	50	23	20	15	17	32	7
8	22	250	74	97	1040	145*	52	25	20	18	18	54	8
9	21*	98	69	127	NR	108	49	28	20	16	17	108	9
10	42	98	279	122*	NR	191	43	29	19	16	19	81	10
11	140	218	142	78	NR	243	49	34	20*	19	19	66	11
12	71	110	98	69	NR	128	48	34	16	22	16	57	12
13	46	361	85	68	NR	108	43	30	14	24	16	47	13
14	41	110	75	66*	NR	98	40	24	13	21	16*	40	14
15	39	67	108	59	89E*	90	38	24	13	19	16	36	15
16	88	83	152	53	81	81	36	23	12	19	18	29	16
17	110	83	95	49	77	75	45	24	11	20	22	25E*	17
18	77	128	85	55	74	79	60	32	11	19*	34	24E	18
19	73	85	79	55	73	74	55	24	13	18	41	23E	19
20	65	107	75	54	72	71	43	24	19	18	41	22E	20
21	54	187	70	54	64	69	49	20	19	23	24	21E	21
22	55	91	66	55	58	64	58	20	22	25	20	20E	22
23	54	72	67	54	54	63	47	20	24	24	21	19E	23
24	41	300	65	51	52	65	40	21	21	24	18	19E	24
25	38	149	62	50	52	72	37	22	20	21	18	18E	25
26	36	92	60	51	57	129	37	27	18	18	17	18E	26
27	42	167	59	55	53	219	32	32	18	20	15	19	27
28	59	396	58	54	52	135	28	34	17	18	15	27	28
29	69	144	55	64		100	27	46	16	21	19	31	29
30	52	101	50	58		86	27	43	16	24	24	36	30
31	43		50	48		76		33		26	28		31

MONTHLY													
MEAN	53.8	129	90.0	62.4	NR	114	45.8	27.5	22.4	19.5	21.7	34.8	
MAX	140	396	279	127	NR	378	71	46	62	26	41	108	
MIN	21	30	50	46	NR	49	27	20	11	14	15	18	
ACFT	3310	7670	5536	3834	NR	6984	2727	1690	1333	1200	1335	2073	

MEAN	INSTANTANEOUS	MAXIMUM	FLOW, 1984-85	INSTANTANEOUS	MINIMUM	FLOW, 1984-85	TOTAL
FLOW	DATE	TIME	FLOW G. H.	DATE	TIME	FLOW G. H.	ACRE FEET
NR	No Record			August 15	0730	9.1 9.59	NR

REMARKS:

Station located on upstream side of Vernon Street bridge, above Southern Pacific Railroad tracks. Tributary to Sacramento River via back borrow pit of Reclamation District 1000.

Two previous stations have reported Dry Creek flows. Linda Creek near Roseville, A00040 (1949 to 1966), and Dry Creek at Roseville, A00047 (1966 to March 1984).

Reported maximum instantaneous historical flow may have been exceeded during periods of no record.

Period of record for discharge is
Period of record for gage height is

The datum for this station from 1949 to 1966 is 108.00, NGVD. From April 1966 to August 1984 is 0.00, local. From September 1984 to present is 0.00, local.

FOR PERIOD OF RECORD BEGINNING 1949:

	FLOW	GAUGE		
	CFS	HEIGHT	DATE	TIME
INSTANTANEOUS MAXIMUM	4400	14.02E	October 13, 1962	NA
AVERAGE/YEAR	Not available.			

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: A09115 SOUTH FORK PUTAH CREEK NEAR DAVIS
LOCATION: LAT 38-31-02, LONG 121-45-21, T08N, R02E, SEC. 28, MD B&M SOLANO COUNTY
DRAINAGE AREA: Not available HYDROLOGIC AREA: A-02.B0

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1	19	19	27	43	52	51							1
2	19	20	28	44	51	32							2
3	21	21	34	45	49	30							3
4	20	22	30	45	49	30*							4
5	20	23	30*	46	48	NR							5
6	20	23	30	46	48	NR							6
7	19	23	30	52	50	NR							7
8	20	27	30	51	576	NR	N	N	N	N	N	N	8
9	20	23*	31	49	150	NR							9
10	21	24	41	52	36	NR	O	O	O	O	O	O	10
11	22	27	38	47	29	NR							11
12	22	27	37	46	28	NR							12
13	19	34	38	46	29	NR							13
14	19	26	36	48	35*	NR							14
15	19	27	37	48	31	NR	R	R	R	R	R	R	15
16	20	36	37	48	30	NR	E	E	E	E	E	E	16
17	23	31	37	48	30	NR							17
18	20	30	38	49	30	NR	C	C	C	C	C	C	18
19	20	31	42	48	30	NR							19
20	20	35	40	47	30	NR	O	O	O	O	O	O	20
21	19	34	39	48	30	NR	R	R	R	R	R	R	21
22	20	35	38	49	30	NR							22
23	21*	37	38	50	30	NR	D	D	D	D	D	D	23
24	18*	43	38	50	29	NR							24
25	17	40	39	50	30	NR							25
26	17	42	40	50	30	NR							26
27	17	49	41	50	31	NR							27
28	18	166	42	51	79	NR							28
29	18	51	42	53		NR							29
30	19	28	42	52		NR							30
31	19		42	52		NR							31
MMONTHLY													
MEAN	19.5	35.1	36.5	48.5	60.7	NR	NR	NR	NR	NR	NR	NR	
MAX	23	166	42	53	576	NR	NR	NR	NR	NR	NR	NR	
MIN	17	19	27	43	28	NR	NR	NR	NR	NR	NR	NR	
ACFT	1202	2091	2245	2981	3372	NR	NR	NR	NR	NR	NR	NR	

MEAN FLOW	INSTANTANEOUS DATE	MAXIMUM FLOW, 1984-85	INSTANTANEOUS DATE	MINIMUM FLOW, 1984-5	TOTAL ACRE FEET
NR	February 8	1700 1520 10.08	June 27	2015 0.0 3.70	NR

REMARKS:

Station is located on downstream side of Davis Road Bridge.

Tributary to Yolo Bypass. The University of California Water Treatment Plant discharges into the channel 100 feet upstream from the gage. Very low flows upstream of treatment plant during summer months.

Period of record for discharge is 1957 to date.

Flows were computed until March 4, 1985. Operation of station after March 4, 1985 records gage height only.

The datum for this station from 1957 to present is 24.57, NGVD.

FOR PERIOD OF RECORD BEGINNING 1957:

INSTANTANEOUS MAXIMUM AVERAGE/YEAR	FLOW CFS	GAUGE HEIGHT	DATE	TIME
	14700	18.48	January 24, 1970	NR
	Not available.			

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: A05735 NORTH HONCUT CREEK NEAR BANGOR

LOCATION: LAT 39-20-32, LONG 121-29-25, T17N, R04E, SEC. 11, MD B&M

BUTTE COUNTY

DRAINAGE AREA: 47.1 SQ MILES

HYDROLOGIC AREA: A-10.F0

WATER YEAR	OCTOBER	1984	through	SEPTEMBER	1985								
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1	0.0	NR	60	7.7	7.5	5.9	86	3.6	NR	NR			1
2	0.0	NR	34	7.5	7.4	6.6	79	3.6	NR	0.0			2
3	0.0	NR	42	7.3	7.3	6.9	72	3.5	NR	0.0			3
4	0.0	NR	47	7.2	7.3	6.5	66	3.5	NR	0.0			4
5	0.0	NR	30	7.0	7.2	6.2	54	3.3	NR	0.0			5
6	0.0	3.2	21	6.8	7.1	6.0	32	3.8	NR	0.0			6
7	0.0	3.6	13	7.1	22	83	22	3.6	NR	0.0			7
8	0.0	5.1	10	8.6	844E	92	15	3.3	NR	0.0	N	N	8
9	0.0	6.0	9.8	8.1	347E	76	10	3.2	NR	0.0			9
10	0.2	4.9	52	7.8	219	70	6.3	3.1	NR	0.0	O	O	10
11	0.8	12	83	7.5	170	118	5.9	3.1	NR	0.0			11
12	2.5	11	68	7.2	137	100	5.9	3.0	NR	0.0			12
13	NR	50	44	7.2	110	86	5.9	2.8	NR	0.0			13
14	NR	31	19	7.3	91	78	5.8	2.7	NR	0.0			14
15	NR	9.2	41	7.3	78	71	5.6	NR	NR	0.0			15
16	NR	8.2	154	7.2	69	52	5.2	NR	NR	0.0	F	F	16
17	NR	8.2	116	7.1	62	29	5.2	NR	NR	0.0			17
18	NR	14	85	7.0	45	19	5.1	NR	NR	0.0	L	L	18
19	NR	18	70	6.9	28	14	5.0	NR	NR	0.0			19
20	NR	9.7	52	6.8	19	10	4.8	NR	NR	0.0	O	O	20
21	NR	73	28	6.6	12	7.2	4.5	NR	NR	0.0	W	W	21
22	NR	66	16	6.6	10	6.7	4.6	NR	NR	0.0			22
23	NR	29	11	6.5	9.7	6.4	4.7	NR	NR	0.0			23
24	NR	277E	9.8	6.3	8.8	6.2	4.5	NR	NR	0.0			24
25	NR	124	9.4	6.3	6.6	6.9	4.4	NR	NR	0.0			25
26	NR	64	9.1	7.2	6.2	13	4.4	NR	NR	0.0			26
27	NR	41	8.9	8.4	6.0	232	4.3	NR	NR	0.0			27
28	NR	305#	8.7	8.0	5.9	169	4.1	NR	NR	0.0			28
29	NR	109	8.4	8.3		134	4.0	NR	NR	0.0			29
30	NR	77	8.1	8.0		112	3.7	NR	NR	0.0			30
31	NR		7.9	7.7		96		NR		0.0			31

MONTHLY												
MEAN	NR	NR	37.9	7.3	83.9	55.7	18.0	NR	NR	NR	0.0	0.0
MAX	NR	NR	154	8.6	844	232	86	NR	NR	NR	0.0	0.0
MIN	0.0	0.0	7.9	6.3	5.9	5.9	3.7	NR	NR	0.0	0.0	0.0
ACFT	NR	NR	2333	449	4661	3422	1071	NR	NR	NR	0	0

MEAN	INSTANTANEOUS	MAXIMUM FLOW, 1984-85	INSTANTANEOUS	MINIMUM FLOW, 1984-85	TOTAL
FLOW	DATE	TIME	DATE	TIME	ACRE FEET
NR	February 08	1145	October 01	0015	NR
		1600		0.0	2.03

REMARKS:

Station is located 0.4 miles north of Honcut-Wyandotte Road and Bangor Highway junction, 5.7 miles southwest of Bangor.

Tributary to the Feather River. Flows are partly regulated by Lake Wyandotte. Maximum flow of 10,700 cfs (December 26, 1964) was estimated by an extended rating curve.

Period of record for discharge is October 1959 to September 1962 and July 1963 to date.

The datum for this station from 1959 to 1962 is 0.00, LOCAL.
The datum for this station from 1963 to present is 0.00, LOCAL.

FOR PERIOD OF RECORD BEGINNING 1959:

	FLOW	GAGE	DATE	TIME
INSTANTANEOUS MAXIMUM	CFS	HEIGHT		
	10700E	11.57	December 26, 1964	NR
AVERAGE/YEAR	Not available.			

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: B02008 MOSHER CREEK NEAR STOCKTON

LOCATION: LAT 38-02-35, LONG 121-15-43, T02N, R06E, SEC. 01, MD B&M SAN JOAQUIN COUNTY

DRAINAGE AREA: Not available

HYDROLOGIC AREA: B-03.B0

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1	7.5	0.0	5.0	0.0	0.0	0.0	3.4	3.7	10	7.6	12	7.5	1
2	7.8	0.0	5.2	0.0	0.0	0.0	3.6	6.9	11	4.3	8.1	5.7	2
3	7.8	0.1	5.8	0.0	0.0	0.0	3.0	12	10	12	9.7	6.9	3
4	7.6	0.1	6.4	0.0	0.0	0.0	1.9	11	4.2	7.4	5.9	7.5	4
5	7.3	0.1	6.8	0.0	0.0	0.0	0.9	3.4	.6	3.6	10	6.2	5
6	7.0	0.1	5.1	0.0	0.0	0.0	0.7	8.9	2.4	3.9	7.0	6.8	6
7	6.7	0.1	4.1	0.0	0.0	0.0	0.5	4.5	4.5	6.6	6.0	7.1	7
8	6.4	0.1	3.5	0.0	3.4	0.0	0.5	3.1	1.8	7.5	1.6	5.5	8
9	6.2	0.1	2.8	0.0	1.8	0.0	0.5	6.4	.6	6.5	2.9	9.0	9
10	6.1	0.1	9.7	0.0	1.8	0.0	0.5	5.4	6.5	4.1	2.8	6.4	10
11	5.8	0.1	6.1	0.0	0.4	0.0	1.9	2.6	7.7	1.9	4.3	6.6	11
12	5.4	0.1	5.6	0.0	0.2	0.0	4.6	9.6	3.1	11	3.0	6.5	12
13	4.9	0.1	4.9	0.0	0.1	0.0	1.9	7.1	2.6	9.0	5.3	7.3	13
14	4.2	0.2	3.9	0.0	0.1	0.0	7.0	5.4	4.6	10	7.5	5.6	14
15	3.6	0.3	5.7	0.0	0.1	0.0	11	5.0	3.5	6.2	7.3	5.0	15
16	3.2	0.3	7.8	0.0	0.1	0.0	12	1.8	9.6	10	7.5	6.1	16
17	2.7	0.3	4.7	0.1	0.0	0.0	14	3.8	7.6	6.4	5.2	5.6	17
18	1.5*	0.3	3.9	0.1	0.0	0.0	12	4.0	3.0	4.4	9.5	6.9	18
19	0.9	0.3	3.7	0.1	0.0	0.0	6.8	6.0	.3	6.4	13	7.7	19
20	0.5	0.3*	3.5	0.0	0.0	0.1	7.1	8.8	2.0	9.1	7.4	6.4	20
21	0.2	0.3	2.4	0.0	0.0	0.1	9.5	12	5.8	5.6	8.0	5.6	21
22	0.1	0.3	1.5	0.0	0.0	0.2	9.0	8.6	3.7	2.4	4.9	5.0	22
23	0.0	0.3	0.8	0.0	0.0	0.7	7.6	4.8	4.0	1.1	2.3	4.1	23
24	0.0	0.6	0.3	0.0	0.0	1.2	5.3	4.5	8.0	2.8	5.3	3.5	24
25	0.0	1.3	0.1	0.0	0.0	1.2	6.5	6.7	2.8	10	8.3	3.3	25
26	0.0	1.8	0.0	0.0	0.0	3.3	5.8	5.6	8.3	13	9.5	3.8	26
27	0.0	2.5	0.0	0.0	0.0	3.0	5.5	5.5	6.8	14	6.5	5.8	27
28	0.0	3.7	0.0	0.0	0.0	6.4	10	4.4	1.8	12	5.4	8.0	28
29	0.0	4.2	0.0	0.0	0.0	6.7	10	10	11	6.6	5.1	8.3	29
30	0.0	4.6	0.0	0.0	0.0	5.3	7.8	10	10	3.4	6.9	7.9	30
31	0.0		0.0	0.0	0.0	3.9		9.9		16	6.0		31
MONTHLY													
MEAN	3.3	.8	3.5	0.0	0.3	1.0	5.7	6.5	5.3	7.3	6.6	6.3	
MAX	7.8	4.6	9.7	0.1	3.4	6.7	14	12	11	16	13	9.0	
MIN	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.8	0.3	1.1	1.6	3.3	
ACFT	205	45	217	1	16	64	339	399	313	446	405	372	

MEAN FLOW	INSTANTANEOUS DATE	MAXIMUM FLOW, 1984-85 TIME	INSTANTANEOUS DATE	MINIMUM FLOW, 1984-85 TIME	TOTAL ACRE FEET
3.9	July 31	0545 21 27.09	October 26	1930 0.0 26.28	2822

REMARKS:

Station is located 5 miles north and east of Stockton on right bank of Mosher Creek 0.5 miles west of Highway 99.

Tributary to San Joaquin River. Station operated at Lower Sacramento Road (B02005) between 1965 and 1968. Discontinued until 1973. The station was reactivated at a site on Westlane (B02007) in 1973. Moved to present site in March of 1979.

Period of record for discharge is December 1965 to September 1967, October 1973 to September 1978 and March 1979 to date.

The datum for this station from 1965 to 1967 is 0.00, LOCAL.
The datum for this station from 1973 to 1978 is 0.00, LOCAL.
The datum for this station from 1979 to present is 0.00, LOCAL.

FOR PERIOD OF RECORD BEGINNING 1979:

INSTANTANEOUS MAXIMUM AVERAGE/YEAR	FLOW CFS	GAGE HEIGHT	DATE	TIME
	168	29.12	January 05, 1982	NR
	Not available.			

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: B02520 CALAVERAS RIVER NEAR STOCKTON

LOCATION: LAT 38-01-14, LONG 121-13-45, T02N, R07E, SEC. 17, MD B&M SAN JOAQUIN COUNTY

DRAINAGE AREA: Not available

HYDROLOGIC AREA: B-03.C0

WATER YEAR	OCT	NOV	1984 thru DEC	SEPTEMBER 1985 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1	6.9		0.0	0.0	0.0	0.0	1.8	28	12	13	21	11	1
2	7.6		0.0	0.0	0.0	0.0	0.2	25	15	12	15	17	2
3	5.5		0.0	0.0	0.0	0.0	0.0	21	8.0	12	9.4	10	3
4	4.6		0.0	0.0	0.0	0.0	0.0	33	10	9.4	9.8	13	4
5	3.5		0.0	0.0	0.0	0.0	0.0	34	7.3	13	10	14	5
6	2.6		0.0	0.0	0.0	0.0	0.0	27	12	10	12	14	6
7	2.1		0.0	0.0	0.0	0.0	0.0	15	9.0	14	16	18	7
8	1.8	N	0.0	0.0	0.0	0.0	0.0	14	10	14	21	25	8
9	1.3		0.0	0.0	26	0.0	0.0	13	8.7	14	13	17	9
10	0.8	O	0.0	0.0	26	0.0	0.0	11	12	18	14	15	10
11	0.5		0.0	0.6	12	0.0	0.0	26	16	9.2	19	16	11
12	0.3		2.5	0.0	4.0	0.0	0.0	28	14	12	7.6	8.2	12
13	0.1		2.5	0.0	0.9	0.0	0.0	25	10	25	13	8.4	13
14	0.0		0.1	0.0	0.0	0.0	0.0	19	5.6	15	13	6.5	14
15	0.0*		0.0	0.0	0.0	0.0	0.0	9.5	6.0	16	12	4.6	15
16	0.0	F	0.0	0.0	0.0	0.0	0.1	12	12	25	12	3.5	16
17	0.0		0.0	0.0	0.0	0.0	0.6	9.5	11	15	16	2.5	17
18	0.0	L	0.0	0.0	0.0	0.0	16	16	15	15	23	1.8	18
19	0.0		0.0	0.0	0.0	0.0	67	16	16	20	17	1.2	19
20	0.0	O	0.8	0.0	0.0	0.0	47	11	12	26	9.0	0.9	20
21	0.0	W	0.2	0.0	0.0	0.0	48	11	19	26	6.8	0.7	21
22	0.0		0.0	0.0	0.0	0.0	35	20	17	16	9.1	0.5	22
23	0.0		0.0	0.0	0.0	0.0	9.9	18	26	8.4	17	0.4	23
24	0.0		0.0	0.0	0.0	0.0	8.3	11	16	11	19	0.4	24
25	0.0		0.0	0.0	0.0	0.0	18	8.6	22	9.3	24	8.2	25
26	0.0		0.0	0.0	0.0	0.0	15	8.3	12	24	13	13*	26
27	0.0		0.0	0.0	0.0	0.0	11	9.4	18	14	12	16	27
28	0.0		0.0	0.0	0.0	0.0	14	9.6	22	16	14	14	28
29	0.0		0.0	0.0	7.6	16	16	4.7	18	8.5	21	13	29
30	0.0		0.0	0.0	7.8	23	8.2	18	6.6	13	11	30	30
31	0.0		0.0	0.0	4.4		9.5		9.6	12			31

MONTHLY

MEAN	1.2	0.0	0.2	0.0	2.5	0.6	11.0	16.5	13.7	14.7	14.3	9.5
MAX	7.6	0.0	2.5	0.6	26	7.8	67	34	26	26	24	25
MIN	0	0.0	0.0	0.0	0.0	0.0	0.0	4.7	5.6	6.6	6.8	.4
ACFT	75	0	12	1	137	39	656	1014	812	906	880	565

MEAN FLOW	INSTANTANEOUS FLOW	DATE	MAXIMUM FLOW	TIME	1984-85	INSTANTANEOUS FLOW	DATE	MINIMUM FLOW	TIME	1984-85	TOTAL
7.0		April 19	0400	78	4.41		October 14	0345	0.0	3.12	5097

REMARKS:

Station is located below Solori Road Bridge, 5 miles northeast of Stockton. Prior to October 28 1965, station was located 0.5 miles above Highway 99 Bridge, 1.5 miles below present location.

Flows are regulated by a diversion dam at Bellota operated by Stockton East Irrigation District.

Period of record for discharge is December 1948 to date.

The datum for this station from 1948 to present is 0.00, LOCAL.

FOR PERIOD OF RECORD BEGINNING 1948:

INSTANTANEOUS MAXIMUM AVERAGE/YEAR	FLOW CFS	GAGE HEIGHT	DATE	TIME
	829	11.14	December 22, 1984	NR
	Not available			

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: B02580 STOCKTON DIVERSION CANAL AT STOCKTON

LOCATION: LAT 37-59-12, LONG 121-15-30, T02N, R06E, SEC. 25, MD B&M SAN JOAQUIN COUNTY

DRAINAGE AREA: Not available

HYDROLOGIC AREA: B-03.C0

WATER YEAR	OCTOBER	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1	0.7	1.3	NR	0.0	0.0	0.0	20	14	5.0	0.4	0.0	1.1	1
2	19	0.0	NR	0.0	0.0	0.0	10	9.0	13	3.1	0.2	0.7	2
3	16	0.0	NR	0.0	0.0	0.0	4.8	0.8	2.2	1.4	0.3	0.7	3
4	7.6	0.0	221	0.0	17	1.1	3.5	3.2	1.1	0.3	0.0	0.7	4
5	5.2	0.0	58	0.0	8.5	2.9	0.6	12	0.2	0.0	0.0	0.7	5
6	4.1	0.0	28	0.0	3.4	0.6	4.5	14	0.1	0.0	0.0	0.7	6
7	1.9	12	10	1.6	1.3	12	12	2.5	0.0	0.0	0.1	0.7	7
8	1.1	24	3.8	380	374	112	7.8	0.2*	0.0	0.0	0.2	2.8	8
9	.2	18	1.4	169	906	47	4.3	7.5	0.0	0.0	19	7.9	9
10	.0	16	24	41	136	28	0.2	2.1	0.0	0.0	16	10	10
11	1.2	15	119	15	46	231	0.0	0.3	0.0	4.5	6.6	3.1	11
12	1.8	9.6	65	7.6	20	128	0.0	1.8	0.0	7.1	10	1.9	12
13	3.1	18	27	3.1	7.7	50	0.0	1.6	0.0	0.0	3.3	1.6	13
14	5.2	47	13	1.7	2.6*	28	0.0	3.3	0.0	0.0	1.9	3.3	14
15	10	* 43	9.1	.5*	2.4	17	0.0	5.7	0.0	0.0	1.9	2.5	15
16	21	24	157	0.0	0.5	10	0.0	0.0	0.0	0.0	1.9	2.5	16
17	17	11	148	0.0	0.0	10	0.0	0.0	0.0	0.0	1.6	2.1	17
18	34	5.4	46	0.0	0.0	17	0.0	0.0	0.0	0.0	1.1	1.8	18
19	49	1.9	17	0.1	0.4	7.3	.0	0.0	0.0	0.0	1.8	1.4	19
20	46	0.0*	6.8	0.0	0.0	3.4*	4.6	0.0	0.0	0.0	1.0	1.4	20
21	15	NR	2.5	0.0	0.0	1.5	24	10	0.0	16	2.0	1.0	21
22	9.5	NR	0.8	0.0	0.0	0.4	28	5.1	0.1	18	9.8	0.9	22
23	8.7	NR	0.0	0.0	0.0	0.0	20	1.3	10	31	3.3	0.9*	23
24	7.5	NR	0.0	0.0	0.0	17	11	19	5.4	9.0*	2.5	0.7	24
25	14	NR	0.0	0.0	0.0	25	6.1	21	9.8	0.7	2.0	0.6	25
26	7.9	NR	0.0	0.0	0.0	13	8.8	14	12	1.2	0.8	7.7	26
27	2.1	NR	0.0	0.0	0.0	26	5.8	4.4	5.4	2.6	1.1	10	27
28	1.6	NR	0.1	0.0	0.0	298	1.3	0.0	17	0.6	2.0	9.2	28
29	7.2	NR	0.9	0.0	0.0	223	14	0.0	6.8	20	2.1	12	29
30	4.3	NR	0.7	0.0	0.0	75	4.5	2.1	1.1	8.6	5.1	28	30
31	2.9		0.4	0.0	0.0	42		3.4		0.0	1.9		31
MONTHLY													
MEAN	10.5	NR	NR	20.0	54.5	46.0	6.5	5.1	3.0	4.0	3.2	4.0	
MAX	49	NR	NR	380	906	298	28	21	17	31	19	28	
MIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	
ACFT	644	NR	NR	1229	3026	2829	388	314	177	247	197	235	
MEAN	INSTANTANEOUS MAXIMUM FLOW, 1984-85						INSTANTANEOUS MINIMUM FLOW, 1984-85						TOTAL
FLOW	DATE	TIME	FLOW	G.H.	DATE	TIME	FLOW	G.H.	ACRE FEET				
NR	February 08	2315	2000	9.52	October 09	0915	0.0	3.02	NR				

REMARKS:

Station is located on right bank of diverting canal, 60 feet below Cherokee Lane Bridge.

Prior to June 12, 1969, station was located 200 feet above U.S. Highway 99. Water is diverted from Calaveras River at Bellota and returned to Calaveras River via Stockton Diverting canal.

Period of record for discharge is January 1944 to date.

The datum for this station from 1954 to present is 0.00, LOCAL.

FOR PERIOD OF RECORD BEGINNING 1925:

	FLOW	GAGE	DATE	TIME
INSTANTANEOUS MAXIMUM	CFS	HEIGHT		NR
AVERAGE/YEAR	11400E	17.10	April 04, 1958	
	Not available.			

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: B02805 FRENCH CAMP SLOUGH NEAR FRENCH CAMP

LOCATION: LAT 37-52-52, LONG 121-14-53, T01S, R07E, SEC. 06, MD B&M SAN JOAQUIN COUNTY

DRAINAGE AREA: Not available

HYDROLOGIC AREA: B-03.D0

WATER DAY	YEAR	OCTOBER	1984	through	SEPTEMBER	1985								
		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1	120	0.0	97	14	13	14	92	73	77	45	55	123	1	
2	172	0.0	66	13	14	19	81	98	95	8.0	42	139	2	
3	134	0.2	88	11	21	27	70	102	113	22	46	111	3	
4	156	0.3	177	10	38	38	70	94	103	28	73	96	4	
5	128	0.0	110	10	27	50	76	91	74	20	62	105	5	
6	120	0.0	73		9.4	25	78	82	87	73	37	57	104	6
7	117	0.0	50		11	25	79	119	69	79	28	69	114	7
8	117	0.5	36		18	59	64	112*	76	68	44	54	129	8
9	128	4.2	28		42	918	110	100	65	78	30	36	124	9
10	137	4.8	28		38	730	107	88	51	70	8.0	39	127	10
11	140	5.2	104		28	684	328	83	85	81	19	87	116	11
12	164	4.2	101		24	656	323	103	103	69	43	65	124	12
13	141	5.6	69		22	626	141	88	96	70	46	56	124	13
14	176	49	50		18	586	95	71	73	45	65	67	151	14
15	163	34	40		15*	431	71	101	65	51	60	42	108	15
16	152	14	328		19	88	57	113	93	62	62	41	111	16
17	113	11	608		14	63	49	133	73*	56	47	70	96	17
18	80*	18	280		13	52	47	154	81	48	54	87	72	18
19	36	28	117		12	45	49	131	83	31	71	55	76	19
20	22	21	84		10	41	41	107	87	36	32	47	78	20
21	15	14	65		10	35	41	107	89	55	50	75	82	21
22	13	21	51		9.5	30	33	103	79	43	46	71	82	22
23	6.7	17	41		9.9	28	38	77	63	59	72	100	82	23
24	5.0	22	34		8.5	26	34	92	75	82	44	89	70*	24
25	3.6	142	29		7.5	21	31	101	84	71	52	83	88	25
26	3.2	137*	26		7.6	20	33	92	87	79	54	82	87	26
27	1.5	93	25		9.8	18	57	87	81	72	41	95	102	27
28	0.4	80	23		8.1	16	72	75	64	49	59	100	105	28
29	1.0	427	20		7.8		98	53	81	41	66	98	84	29
30	0.5	200	19		7.7		153	79	66	37	64	91	83	30
31	0.1		16		9.2		112		66		67	98		31
MONTHLY														
MEAN	82.8	45.1	93.0		14.4	191	80.3	94.7	80.0	65.6	44.6	68.8	103	
MAX	176	427	608		42	918	328	154	103	113	72	100	151	
MIN	0.1	0.0	16		7.5	13	14	53	51	31	8.0	36	70	
ACFT	5090	2684	5718		887	10580	4937	5633	4919	3901	2745	4229	6135	
MEAN FLOW														
INSTANTANEOUS MAXIMUM FLOW, 1984-85														
DATE TIME FLOW G.H.														
79.4 February 09 0145 1190 7.64														
MEAN FLOW														
INSTANTANEOUS MINIMUM FLOW, 1984-85														
DATE TIME FLOW G.H.														
79.4 November 02 1230 0.0 2.61														
TOTAL ACRE FEET														
57458														

REMARKS:

Located on right bank of French Camp Slough at Airport Way (Durham Ferry Road), 1.5 miles east of French Camp.

Tributary to San Joaquin River. An irrigation diversion dam is placed across the channel in some years requiring a supplemental rating curve be used for a bypass around the dam. Diversion dam was not installed during this water year.

Period of record for discharge is January 1950 to date.

The datum for this station from 1950 to 1955 is 0.00, LOCAL.

The datum for this station from 1955 to present is 4.00, LOCAL.

FOR PERIOD OF RECORD BEGINNING 1950:

INSTANTANEOUS MAXIMUM	FLOW	GAGE	DATE	TIME
AVERAGE/YEAR	CFS	HEIGHT	December 09, 1950	NR
	3390	6.31		
	Not available.			

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: B02835 DUCK CREEK NEAR STOCKTON

LOCATION: LAT 37-55-30, LONG 121-15-02, T01N, R06E, SEC. 24, MD B&M SAN JOAQUIN COUNTY

DRAINAGE AREA: Not available

HYDROLOGIC AREA: B-03.D0

WATER YEAR DAY	OCT	NOV	1984 thru DEC	1985 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1	4.5	3.1	11	2.1	0.0	0.4	0.5	0.4	0.8	1.5	2.1	3.1	1
2	4.4	3.2	10	2.0	0.0	0.5	0.5*	0.4	0.8	1.5	2.3	3.2	2
3	4.3	3.3	42	1.9	0.0	0.5	0.5	0.4	0.8	1.5	2.3	3.2	3
4	4.2	3.4	53	1.8	0.0	0.5	0.5	0.4	0.8	1.6	2.3	3.4	4
5	3.8	3.4	11	1.6	0.0	0.5*	0.5	0.4	0.8	1.6	2.3	3.2	5
6	3.8	3.5	9.0	1.5	0.0*	0.5	0.5	0.4	0.8	1.5	2.3E	3.4	6
7	3.7	3.7	8.5	1.5	0.0	0.5	0.5	0.4	0.8	1.6	2.3E	3.4	7
8	3.6	3.8	8.2	2.7	0.0	0.5	0.5	0.4	0.9	1.6	2.3E	3.6	8
9	3.6	3.8	7.9	11	99	0.5	0.5	0.4	1.3	1.6	2.3E	3.6	9
10	3.2	3.9	7.6	1.9	1.2	0.5	0.5	0.5	1.0	1.6	2.4E	3.6	10
11	3.2	4.0	11	1.5	0.1	1.7	0.5	0.8	1.0	3.8	2.4E	3.6	11
12	3.1	4.1	8.7	1.4	0.1	2.1	0.5	0.6	1.1	1.9	2.4E	3.6	12
13	3.0	4.2	6.7	1.3	0.1	0.6	0.5	0.6	1.1	1.9	2.4E	3.6	13
14	2.8	4.4	6.4	1.2	0.1	0.6	0.5	0.6	1.1	1.9	2.4*	3.8	14
15	2.6	4.4	6.1	1.1*	0.1	0.6	0.5	0.6	1.2	2.0	2.4	3.7	15
16	2.5	4.5	45	0.9	0.1	0.6	0.5	0.6	1.2	2.0	2.4	3.8	16
17	2.4	4.6	18	0.8	0.1	0.6	0.5	0.6	1.4	2.0	2.5	3.9	17
18	2.3*	4.7	5.7	0.7	0.2	0.6	0.5	0.6	1.2	2.0	2.5	4.0	18
19	2.4	4.8	5.1	0.6	0.2	0.6	0.5	0.6	1.3	2.0	2.5	3.9	19
20	2.4	4.9	4.8	0.5	0.2	0.6	0.5	0.6	1.4	2.0	2.5	4.0	20
21	2.4	5.1	4.6	0.4	0.2	0.6	0.5	0.6	1.3	2.0	2.6	4.1	21
22	2.5	5.1	4.4	0.3	0.2	0.6	0.5	0.8	1.3	2.1	2.6	4.3	22
23	2.5	5.3	3.9	0.2	0.3	0.6	0.5	1.3	1.4	2.1	2.6	4.3	23
24	2.5	5.4	3.7	0.2	0.3	0.6	0.5	0.6	1.4	2.1	2.6	4.3*	24
25	2.6	24	3.6	0.1	0.3	0.6	0.5	0.9	1.4	2.2	2.8	4.3	25
26	2.7	19*	3.4	0.1	0.4	0.5	0.5	0.7	1.5	2.2	2.8	4.3	26
27	2.7	12	3.0	0.1	0.4	0.5	0.4	0.7	1.5	2.1	3.0	4.4	27
28	2.8	12	2.8	0.0	0.4	0.5	0.4	0.7	1.5	2.1	2.8	4.4	28
29	3.0	36	2.6	0.0		0.5	0.4	0.7	1.4	2.3	3.0	4.3	29
30	2.9	12	2.5	0.0*		0.5	0.4	0.7	1.5	2.3	3.0	4.3	30
31	3.1		2.4	0.0		0.5		0.8		2.2	3.2		31

MONTHLY

MEAN	3.1	7.2	10.4	1.3	3.7	0.6	0.5	0.6	1.2	2.0	2.5	3.8
MAX	4.5	36	53	11	99	2.1	0.5	1.3	1.5	3.8	3.2	4.4
MIN	2.3	3.1	2.4	0.0	0.0	0.4	0.4	0.4	0.8	1.5	2.1	3.1
ACFT	189	428	640	78	206	39	29	37	69	121	155	227

MEAN FLOW	INSTANTANEOUS	MAXIMUM FLOW, 1984-85	INSTANTANEOUS	MINIMUM FLOW, 1984-85	TOTAL
	DATE	TIME FLOW G.H.		DATE TIME FLOW G.H.	ACRE FEET
3.1	February 09	0200 256 5.76		January 29 2300 0.0 2.52	2218

REMARKS:

Station is located on downstream side of B Street Bridge. Prior to January 10, 1965, station was located at Laurel Avenue, 0.2 miles upstream from present location.

Duck Creek is a tributary to the San Joaquin River via French Camp Slough. Flows are regulated by gravity culverts which divert to Little Johns Creek.

Period of record for discharge is January 1950 to date.

The datum for this station from 1950 to 1965 is 0.00, LOCAL.

The datum for this station from 1965 to present is 0.00, LOCAL.

FOR PERIOD OF RECORD BEGINNING 1950:

INSTANTANEOUS	MAXIMUM	FLOW	GAGE	DATE	TIME
AVERAGE/YEAR		CFS	HEIGHT		NR
		828	8.86	January 23, 1983	
		Not available			

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: B02010 BEAR CREEK NEAR LODI

LOCATION: LAT 38-04-27, LONG 121-12-40, T03N, R07E, SEC. 28, MD B&M SAN JOAQUIN COUNTY

DRAINAGE AREA: 36.7 SQ MILES

HYDROLOGIC AREA: B-03.B0

WATER YEAR OCTOBER 1984 through SEPTEMBER 1985

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1	NR	7.7	26	2.8	4.7	2.1	6.4						1
2	NR	39	12	2.8	28	2.3	4.6						2
3	NR	26	252	2.8	23	2.0	3.7						3
4	NR	28	192	2.6	11	1.9	2.9						4
5	NR	20	58	2.5	7.5	2.2	2.5						5
6	NR	16	24	2.5	5.5	2.5	2.6						6
7	NR	17	12	3.1	4.8	5.5	7.4						7
8	NR	21	6.4	58	294	34	4.5*	N	N	N	N	N	8
9	NR	50	4.6	76	420	9.6	3.3						9
10	NR	24	121	38	110	7.1	3.9	O	O	O	O	O	10
11	NR	15	205	20	40	38	3.5						11
12	NR	11	64	11	20	28	3.0						12
13	NR	35	27	7.6	13	12	1.7						13
14	NR	118	13	6.1	9.7	7.2	1.9						14
15	NR	83	9.3	5.0	7.3	4.8	NR	R	R	R	R	R	15
16	32*	23	229	4.4*	5.9	3.8	NR	E	E	E	E	E	16
17	67	13	112	4.2	5.7	3.7	NR						17
18	87	9.4	38	4.0	5.5	2.9	NR	C	C	C	C	C	18
19	40	8.3	20	3.7	4.9*	2.4	NR						19
20	17	6.7*	11	3.4	4.2	2.3	NR	O	O	O	O	O	20
21	9.1	5.4	7.1	3.4	3.6	2.7	NR	R	R	R	R	R	21
22	5.3	6.6	5.6	3.6	3.6	2.4	NR						22
23	4.2	9.0	4.5	3.8	3.1	3.1	NR	D	D	D	D	D	23
24	3.7	31	3.9	3.8	2.9	2.4	NR						24
25	3.4	220	3.4	3.8	2.6	1.9	NR						25
26	3.0	64	3.6	3.8	2.6	1.9	NR						26
27	2.7	28	3.1	3.5	2.2	78	NR						27
28	2.5	132	3.1	3.3	2.2	105	NR						28
29	2.4	135	3.5	3.7		60	NR						29
30	2.3	53	3.4	6.4		21	NR						30
31	2.2		3.1	5.6		11							31

MONTHLY

MEAN	NR	41.8	47.8	9.8	37.4	15.0	NR	NR	NR	NR	NR	NR
MAX	NR	220	252	76	420	105	NR	NR	NR	NR	NR	NR
MIN	NR	5.4	3.1	2.5	2.2	1.9	NR	NR	NR	NR	NR	NR
ACFT	NR	2937	605	2078	920		NR	NR	NR	NR	NR	NR

MEAN FLOW	INSTANTANEOUS	MAXIMUM FLOW	1984-85	INSTANTANEOUS	MINIMUM FLOW	1984-85	TOTAL
NR	DATE	TIME	G.H.	DATE	TIME	G.H.	ACRE FEET
	February 8	2015	885	April 25	2115	0.0	0.30
			3.52				NR

REMARKS:

Station is located on upstream side of Alpine Road Bridge, 5.0 miles southeast of Lodi. Tributary to the San Joaquin River via Disappointment Slough.

A temporary dam is installed 1/2 mile below station during irrigation season. Flows are not computed during this period (October 1 through October 15, and April 15 through September 30).

Period of record for discharge is February 1965 to date.

The datum for this station from 1965 to present is 44.4, NGVD.

FOR PERIOD OF RECORD BEGINNING 1965:

INSTANTANEOUS	MAXIMUM	FLOW	GAGE	DATE	TIME
AVERAGE/YEAR		CFS	HEIGHT		NR
		4550	8.33	January 22, 1967	
		Not available.			

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: G12200 BIDWELL CREEK NEAR FORT BIDWELL
LOCATION: LAT 41-52-57, LONG 120-10-26, T46N, R16E, SEC. 06, MD B&M MODOC COUNTY
DRAINAGE AREA: 25.6 SQ MILES HYDROLOGIC AREA: G-12.C0

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1	8.5	9.4	11	8.4E	7.3E	12	26	77	54	20	10	7.5	1
2	7.8*	12	13	8.4E	7.4E	12	35	85	51	19	10	8.9	2
3	7.6	13	12	8.4E	7.4E	11	42	87	49	18	10	9.5	3
4	7.7	11	12	8.4E	6.9E	11	44	79	50	17	10	9.5	4
5	7.6	10	13*	8.3E	6.9E	10	47	76	53	16	9.8	9.2	5
6	7.6	10*	14	8.2E	6.9E	10	56	75	57	16	9.2	9.3	6
7	7.5	11	13	8.2E	7.1	9.7	71	73	60	15	8.4	9.7	7
8	7.3	11	13	8.2E	7.7	9.4	78	70	59	15	8.4	11	8
9	7.3	11	13	8.2	7.4	9.2	82	67*	54	14	8.8	12	9
10	7.7	11	14	7.9	7.1	9.4	82	63	51	13	8.9	12*	10
11	12	16	13	8.0	7.0	9.4	79*	58	49	13*	8.5	12	11
12	9.9	17	14	6.9	8.1	9.8	74	56	48*	12	8.2	12	12
13	13	19	13E	6.4	7.8	10*	76	55	47	12	7.6	12	13
14	9.5	16	10E	6.4E	7.8	11	88	58	46	12	8.1*	11	14
15	9.0	13	9.9E	6.7E	8.5	13	97	55	44	12	8.2	11	15
16	8.9	13	9.7E	6.8E	9.4	16	88	54	41	12	7.8	11	16
17	9.1	12	9.5E	6.7E	9.4	18	79	54	39	11	7.5	11	17
18	9.0	12	8.8E	7.2E	9.5	20	73	58	38	11	7.5	11	18
19	9.6	12	7.6E	7.7E	9.7	22	66	66	36	11	8.1	11	19
20	9.8	12	8.1E	8.2E	9.7	24	57	71	35	11	8.3	11	20
21	9.4	11	9.0E	8.7E	9.5	25	53	68	33	11	8.2	11	21
22	9.1	11	9.8E	8.2E	9.7	23	50	68	31	11	7.9	11	22
23	9.1	11	8.7E	8.2E	10	23	49	72	30	11	7.6	11	23
24	10	12	8.2E	8.4E	11	23	46	76	29	11	7.1	11	24
25	10	11	8.0E	7.9E	12	21	45	77	27	10	6.5	10	25
26	18	11	8.0E	7.9E	12	21	45	72	26	10	5.9	9.6	26
27	12	12	8.3E	7.7E	12	19	47	67	24	10	5.4	9.2	27
28	11	12	8.6E	8.2E	12	18	52	75	23	10	5.3	8.9	28
29	12	12	8.7E	7.7E	17	57	68	68	22	10	6.1	8.7	29
30	11	12	8.7E	7.7E	17	66	61	21	10	10	6.7	8.7	30
31	9.9		8.4E	7.7E	20		58			10	7.1		31
MONTHLY													
MEAN	9.6	12.2	10.5E	7.8E	8.8	15.6	61.7	67.7	40.9	12.7	8.0	10.4	
MAX	18	19	14	8.7E	12E	25	97	87	60	20	10	12	
MIN	7.3	9.4	7.6E	6.4E	6.9E	9.2	26	54	21	10	5.3	7.5	
ACFT	591	727	647E	480E	490	960	3669	4163	2434	781	490	616	
MEAN	INSTANTANEOUS	MAXIMUM FLOW,	1984-85	INSTANTANEOUS	MINIMUM FLOW,	1984-85	TOTAL						
FLOW	DATE	TIME	FLOW G.H.	DATE	TIME	FLOW G.H.	ACRE FEET						
22.2	April 14	1730	104	3.78	August 27	1745	5.1	2.75					16048

REMARKS:

Station located east of New Pine Creek-Fort Bidwell Rd, 2.0 miles NW of Fort Bidwell.
Tributary to Upper Alkali Lake.

Stage-discharge relationship affected by ice at times.

Period of record for discharge is April 1955 to October 1957 (irrigation season only),
May 1958 to date. Period of record for gage height is same as discharge.

The datum for this station from 1958 to present is 0.00, local.

FOR PERIOD OF RECORD BEGINNING 1958:

INSTANTANEOUS	MAXIMUM	FLOW	DATE	TIME
AVERAGE/YEAR		682	December 24, 1964	0600
		Not available.		

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

= E and *.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: G15150 CEDAR CREEK AT CEDARVILLE
LOCATION: LAT 41-32-00, LONG 120-10-54, T42N, R16E, SEC. 06, MD B&M MODOC COUNTY
DRAINAGE AREA: 25.0 SQ MILES HYDROLOGIC AREA: G-12.B0

WATER YEAR DAY	OCT	OCTOBER NOV	1984 DEC	through JAN	SEPTEMBER FEB	1985 MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1	1.0	22	6.6	3.5E	2.2E	7.7	10	14	5.7	1.3	0.5	0.2	1
2	0.9*	26	6.6	3.5E	2.2E	7.5	16	15	5.4	1.2	0.6	0.6	2
3	1.7	23	6.4	3.5E	2.2E	7.1	20	15	5.0	1.2	0.5	0.5	3
4	4.4	20	6.0	3.5E	2.3E	7.1	22	14	4.8	1.1	0.4	0.5	4
5	5.8	20	5.7	3.4E	2.2E	6.6	25	13	4.8	1.1	0.3	0.4	5
6	6.9	10*	5.2	3.2E	2.2E	6.6	31E	13	4.6	1.0	0.3	0.4	6
7	7.5	4.2	5.4	3.2E	2.1E	6.5	39E	12	4.4	0.9	0.3	0.5	7
8	8.3	5.3	5.0	3.0E	2.4E	6.3	37E	12	4.3	0.9	0.3	1.2	8
9	9.9	5.6	4.9E	2.5E	2.5E	6.7	34E	12*	4.0	0.9	0.3	0.9	9
10	11	6.5	4.9E	2.5E	2.3E	6.9	30	11	3.7	0.8	0.3	0.8*	10
11	16	8.3	4.9E	2.5E	2.3E	6.9	26*	10	3.5	0.8*	0.3	0.7	11
12	15	7.7	4.9E	2.6E	3.0	7.4	24	9.0	3.3*	0.8	0.3	0.6	12
13	16	7.8	4.9E	2.7E	3.1	6.9*	24	8.6	3.1	0.7	0.3	0.5	13
14	15	7.7	4.9E	2.7E	3.3	6.2	27	8.3	3.0	0.6	0.2*	0.5	14
15	16	7.2	4.9E	2.7E	3.8	6.9	26	8.0	2.8	0.6	0.2	0.5	15
16	16	6.8	4.9E	2.7E	4.1	7.7	22	7.8	2.6	0.6	0.2	0.5	16
17	17	6.4	4.8E	2.7E	4.4	7.9	20	7.4	2.4	0.6	0.2	0.6	17
18	17	6.6	4.6E	2.6E	4.7	8.7	18	7.2	2.3	0.5	0.2	0.6	18
19	18	6.3	4.4E	2.6E	5.1	9.9	18	7.0	2.3	0.5	0.3	0.5	19
20	20	6.2	4.3E	2.5E	5.2	11	16	7.1	2.1	0.5	0.3	0.5	20
21	19	6.1	4.3E	2.6E	5.2	10	15	6.8	2.1	0.5	0.3	0.5	21
22	19	5.9	4.3E	2.5E	5.6	8.4	16	6.5	1.9	0.6	0.2	0.4	22
23	19	5.8	4.3E	2.5E	6.1	9.2	16	6.4	1.8	0.5	0.2	0.4	23
24	20	6.4	4.1E	2.4E	7.2	9.7	14	6.2	1.8	0.4	0.2	0.4	24
25	20	6.1	4.1E	2.4E	7.6	8.2	13	6.1	1.8	0.4	0.2	0.4	25
26	22	5.8	3.9E	2.4E	7.3	7.2	12	5.8	1.7	0.4	0.2	0.4	26
27	21	7.3	3.8E	2.4E	7.1	6.4	12	5.6	1.6	0.4	0.2	0.3	27
28	21	8.0	3.7E	2.4E	7.4	5.8	12	6.2	1.5	0.4	0.2	0.3	28
29	23	7.5	3.5E	2.4E	5.3	5.3	13	6.6	1.4	0.5	0.2	0.4	29
30	23	7.4	3.6E	2.2E	5.5	5.5	14	6.1	1.3	0.5	0.2	0.4	30
31	22		3.5E	2.2E	7.4	7.4		5.8		0.5	0.2		31

MONTHLY

MEAN	14.6	9.3	4.8E	2.7E	4.1E	7.5	20.7	9.0	3.0	0.7	0.3	0.5
MAX	23	26	6.6	3.5E	7.6E	11	39E	15	5.7	1.3	0.6	1.2
MIN	0.9	4.2	3.5E	2.2E	2.1E	5.3	10	5.6	1.3	0.4	0.2	0.2
ACFT	897	555	292E	168E	228E	459	1234	554	180	43	17	31

MEAN FLOW	INSTANTANEOUS	MAXIMUM FLOW, 1984-85	INSTANTANEOUS	MINIMUM FLOW, 1984-85	TOTAL
6.4	DATE	TIME	DATE	TIME	ACRE FEET
	April 7	1630	August 26	1715	4658
		57E		0.1	2.83

REMARKS:

Station located above Cedarville-Alturas Hwy culvert immediately West of Cedarville.
Tributary to Middle Alkali Lake.

Stage-discharge relationship affected by ice at times. For 1984-85 water year flows for December, January, and February were estimated due to ice conditions.

Period of record for discharge is May 1958 to date.
Period of record for gage height is same as discharge.

The datum for this station from 1958 to present is 0.00, local.

FOR PERIOD OF RECORD BEGINNING 1958:

INSTANTANEOUS MAXIMUM	FLOW	GAUGE	DATE	TIME
AVERAGE/YEAR	133	HEIGHT	December 15, 1983	0430
	Not available.	5.45		

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

= E and *.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: G17150 EAGLE CREEK AT EAGLEVILLE

LOCATION: LAT 41-18-40, LONG 120-07-27, T40N, R16E, SEC. 23 MD B&M MODOC COUNTY

DRAINAGE AREA: 6.4 SQ MILES

HYDROLOGIC AREA: G-12.A0

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1	4.0	5.0	4.3E	3.2E		NR	6.1	NR	12 E	8.3E	3.6	1.8	1
2	3.8	6.1	4.3E	3.0E		NR	8.4	NR	NR	7.9E	3.6	3.3	2
3	3.7	5.6	4.2E	NR		NR	9.8	NR	11 E	7.5E	3.5	2.7	3
4	3.7	5.0	4.1E	NR		NR	9.8	12E	NR	7.3E	3.3	2.4	4
5	3.6	4.7	4.3E	NR		NR	11	NR	NR	7.1E	3.2	2.3	5
6	3.6	5.1	4.1E	NR		NR	14	NR	NR	6.9E	3.2	2.3	6
7	3.5	4.8	4.1E	NR		NR	16	26E	NR	6.4E	3.2	2.3	7
8	3.3	4.8	4.1E	NR	N	NR	16	NR	6.0E	6.0E	3.1	5.7	8
9	3.3	5.0	4.1E	NR		NR	16	NR	6.0E	5.7E	3.0	3.3	9
10	3.2	4.8	4.1E	NR	O	NR	15	NR	NR	5.4E	3.0	2.9	10
11	3.5	5.1	3.9E	NR		NR	14	26E	NR	4.9E	3.0	2.8	11
12	3.2E	5.0	3.9E	NR		NR	14	25E	NR	5.2E	3.0	2.8	12
13	3.4E	5.0	3.9E	NR		NR	16	24E	30 E	5.4	2.9	2.7	13
14	3.4	4.9	3.9E	NR		NR	20	E	NR	5.3	2.7	2.6	14
15	3.3	4.7E	3.9E	NR	R	NR	20	NR	26 E	5.1	2.5	2.5	15
16	3.3	4.7	3.9E	NR	E	NR	17	NR	25 E	5.0	2.5	2.5	16
17	3.5	4.5	3.9E	NR		4.1	15	22E	24 E	4.9	2.5	2.5	17
18	4.0	4.6	3.9E	NR	C	4.1	14	NR	23 E	4.7	2.5	2.5	18
19	3.6	4.4	3.9E	NR		4.3	13	NR	28 E	4.6	2.4	2.4	19
20	3.6	4.4	3.9E	NR	O	4.7	11	NR	21 E	4.4	2.3	2.3	20
21	3.9	4.4	3.9E	NR	R	5.1	11	20E	19 E	4.4	2.3	2.3	21
22	4.5	4.3	3.9E	NR		5.1	9.4	NR	16 E	4.7	2.3	2.1	22
23	4.6	4.3	3.9E	NR	D	4.9	8.5	NR	16 E	4.6	2.3	2.0	23
24	5.9	4.3E	3.7E	NR		5.3	NR	NR	15 E	4.2	2.1	1.9	24
25	5.9	4.3E	3.7E	NR		5.1	NR	15E	13 E	3.7	2.0	1.8	25
26	6.9	4.5E	3.7E	NR		5.5	NR	NR	11 E	3.7	1.9	1.8	26
27	5.6	4.5E	3.6E	NR		5.3	NR	NR	11 E	3.7	1.8	1.8	27
28	5.2	4.5E	3.6E	NR		5.2	NR	NR	10 E	3.6	1.8	1.7	28
29	5.5	4.5E	3.6E	NR		5.1	NR	NR	9.7E	3.6	1.8	1.7	29
30	5.0	4.3E	3.4E	NR		4.8	NR	NR	8.9E	3.6	1.8	1.7	30
31	4.7		3.4E	NR		4.7		NR		3.6	1.8		31

MONTHLY

MEAN	4.1	4.7E	3.9E	NR		NR	NR	NR	NR	5.2E	2.6	2.4
MAX	6.9	6.1	4.3E	NR		NR	NR	NR	NR	8.3E	3.6	5.7
MIN	3.2	4.3	3.4E	NR		NR	NR	NR	NR	3.6E	1.8	1.7
ACFT	254	282E	240E	NR		NR	NR	NR	NR	320E	160	146

MEAN FLOW NR	INSTANTANEOUS DATE	MAXIMUM FLOW, 1984-85 TIME	INSTANTANEOUS FLOW NR	MINIMUM FLOW, 1984-85 TIME	TOTAL ACRE FEET NR
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REMARKS:

Station located 0.6 miles south-west of Eagleville. Tributary to Middle Alkali Lake. The control for this station is a rectangular weir (installed 76/77 WY). Weir crest = 1.92' elevation, local datum. Weir overflow starts at elevation 2.88'.

Stage-discharge relationship affected by ice at times.

Period of record for discharge is May 1958 to date.

Period of record for gage height is the same as discharge.

The datum for this station from 1985 to present is 0.00, local.

FOR WATER YEAR 1985:

No record due to ice during January 1 to March 16. No record for plugged intake during April 24 to June 12 except for estimated flows from single staff readings. Weir overflow occurred on April 15 and June 12 to June 20.

FOR PERIOD OF RECORD BEGINNING 1958:

INSTANTANEOUS MAXIMUM AVERAGE/YEAR	FLOW NR	GAUGE HEIGHT	DATE	TIME

Not available.

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: G31140 PINE CREEK AT EAGLE LAKE NEAR SUSANVILLE

LOCATION: LAT 40-39-54, LONG 120-47-25, T32N, R10E, SEC. 01M, MD B&M LASSEN COUNTY

DRAINAGE AREA: 227 SQ MILES

HYDROLOGIC AREA: G-08.C1

WATER YEAR	OCTOBER	1984 through	SEPTEMBER	1985									
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1						0.0	45						1
2						0.0	90						2
3						0.0	79						3
4						0.0	58						4
5						0.0	63						5
6						0.0	79						6
7						0.0	103						7
8	N	N	N	N	N	0.0	172	N	N	N	N	N	8
9						0.0	196						9
10	O	O	O	O	O	0.0	177	O	O	O	O	O	10
11						0.0	128						11
12						0.0	90						12
13						0.0	59						13
14						0.0*	41						14
15						0.0	30						15
16	F	F	F	F	F	1.1	22	F	F	F	F	F	16
17						9.6	17						17
18	L	L	L	L	L	39	15	L	L	L	L	L	18
19						66	12						19
20	O	O	O	O	O	86	8.3	O	O	O	O	O	20
21	W	W	W	W	W	82	7.3	W	W	W	W	W	21
22						55	5.0						22
23						43	3.7						23
24						49	4.1						24
25						36	1.3						25
26						25	0.3						26
27						9.7	0.3						27
28						7.7	0.0						28
29						3.1	0.0						29
30						1.7	0.0						30
31						11							31
MONTHLY													
MEAN	0.0	0.0	0.0	0.0	0.0	16.9	50.2	0.0	0.0	0.0	0.0	0.0	
MAX	0.0	0.0	0.0	0.0	0.0	86	196	0.0	0.0	0.0	0.0	0.0	
MIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
ACFT	0.0	0.0	0.0	0.0	0.0	1041	2988	0.0	0.0	0.0	0.0	0.0	
MEAN	INSTANTANEOUS MAXIMUM FLOW, 1984-85					INSTANTANEOUS MINIMUM FLOW, 1984-85					TOTAL		
FLOW	DATE	TIME	FLOW	G.H.		DATE	TIME	FLOW	G.H.	ACRE FEET			
5.6	April 09	1200	206	4.21		October 01	0015	0.0	0.38	4029			

REMARKS:

Station located above mouth, 18 miles northwest of Susanville. Major surface water tributary to Eagle Lake.

Stage-discharge relationship affected by ice at times. Low flows affected by poor control.

Prior to October 1, 1969, gage was located 1 mile upstream at different datum.

Period of record for discharge is July 1956 to date.

Period of record for gage height is same as discharge.

The datum for this station from 1956 to 1969 is 0.00, local.

The datum for this station from 1969 to present is 0.00, local.

FOR PERIOD OF RECORD BEGINNING 1956:

	FLOW	GAGE			
	CFS	HEIGHT	DATE	TIME	
INSTANTANEOUS MAXIMUM	1140E	5.45	May 15, 1975	NA	
AVERAGE/YEAR	Not available.				

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: G61705 LONG VALLEY CREEK NEAR HALLELUJAH JUNCTION
LOCATION: LAT 39-46-55, LONG 120-04-14, T22N, R17E, SEC. 03, MD B&M LASSEN COUNTY
DRAINAGE AREA: 100 SQUARE MILES HYDROLOGIC AREA: G-08.A0

WATER YEAR	OCTOBER 1984	through	SEPTEMBER 1985										
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15													15
DATA INSUFFICIENT TO COMPUTE DISCHARGE													
16													16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31

MONTHLY
MEAN
MAX
MIN
ACFT

MEAN FLOW NR	INSTANTANEOUS MAXIMUM FLOW, 1984-5 DATE	TIME	FLOW G.H.	INSTANTANEOUS MINIMUM FLOW, 1984-5 DATE	TIME	FLOW G.H.	TOTAL ACRE FEET NR
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REMARKS:

Station located at State Hwy 70 bridge, 2 miles West of Hallelujah Junction.
A tributary to Honey Lake. Prior to October 1, 1969, station was located 13 miles downstream
at different datum as G61200, Long Valley Creek above Doyle.

Stage-discharge relationship affected by ice at times.

Period of record for discharge is October 1970 to October 1985.

Period of record for gage height is same as discharge.

The datum for this station from 1969 to present is 0.00, local.

FOR PERIOD OF RECORD BEGINNING 1970:

	FLOW CFS	GAUGE HEIGHT	DATE	TIME
INSTANTANEOUS MAXIMUM	3520	9.16	January 24, 1970	0145
AVERAGE/YEAR	Not available.			

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

Table B-2

Stage stations are named, numbered, and presented in the same manner as discharge stations (see page 30). In addition to the daily mean stage, Table B-2 includes a station description and other pertinent data concerning each station.

The stage stations in this appendix are listed below; their locations are shown in Figure 4, pages 32 through 37. The basins and tributary areas pertaining to stage measurements are:

BASIN A – SACRAMENTO RIVER
Tributary Area 0 – Sacramento Valley Floor

BASIN G – NORTH LAHONTAN
Tributary Area 3 – Eagle Lake

Index To Daily Mean Stage Table

Station Name	Station Number	Map Page	Data Page
Butte Slough near Meridian	A02972	34	112
Colusa Basin Drain at Highway 20	A02976	36	109
Colusa Basin Drain at Knights Landing	A02945	36	110
Eagle Lake near Spaulding	G31139	33	115
Sacramento River at Bend Bridge	A02785	34	101
Sacramento River at Colusa Weir	A02430	34	107
Sacramento River at Hamilton City	A02630	34	103
Sacramento River at Knights Landing	A02200	36	111
Sacramento River at Moulton Weir	A02445	34	105
Sacramento River at Ord Ferry	A02570	34	104
Sacramento River at Tisdale Weir	A02301	34	108
Sacramento River at Vina Bridge	A02700	34	102
Sacramento River opposite Moulton Weir	A02450	34	106
Sutter Bypass at Reclamation District # 1500 Pumping Plant	A02927	36	114
Wadsworth Canal near Sutter (Upper Station)	A05929	34	113

TABLE B-2
DAILY MEAN STAGE
(in feet)

STATION NUMBER: A02785 SACRAMENTO RIVER AT BEND BRIDGE

LOCATION: LAT 40-15-50, LONG 122-13-19, T28N, R3W, SEC. 20, MD B&M TEHAMA COUNTY

DRAINAGE AREA: Approximately 9,000 SQ. MILES HYDROLOGIC AREA: A-17.A0

WATER YEAR	OCTOBER	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1	18.98	18.60	20.58	19.20	18.43	18.03	18.05	19.61	19.19	21.00	20.20	18.26	1
2	18.96	18.69	20.51	18.68	18.41	18.03	18.07	19.66	19.18	21.08	20.18	18.27	2
3	18.93	18.95	22.24	18.57	18.40	18.02	18.10	19.65	19.11	21.15	20.18	18.23	3
4	18.97	18.86	22.52	18.56	18.41	18.02	18.05	19.65	19.08	21.07	20.15	18.07	4
5	19.01	18.73	22.49	18.52	18.40	18.05	18.03	19.64	18.86	21.09	20.06	17.87	5
6	18.99	18.78	22.49	18.50	18.41	18.09	18.03	19.64	19.15	21.09	20.10	17.72	6
7	18.83	18.91	22.32	18.60	18.58	18.38	18.02	19.65	19.27	21.17	20.06	17.74	7
8	18.63	19.37	22.22	18.78	22.56	18.57	18.02	19.67	19.74	21.18	20.08	18.25	8
9	18.39	19.21	22.26	18.71	20.06	18.29	18.01	19.66	19.75	21.25	20.04	18.32	9
10	18.28	19.61	23.16	18.88	19.26	18.51	18.00	19.65	19.77	21.24	20.03	17.52	10
11	18.93	21.55	24.49	18.68	18.98	18.51	18.00	19.49	19.72	21.01	19.99	17.22	11
12	18.53	22.24	22.86	18.48	18.70	18.30	18.03	19.45	19.71	21.04	19.96	17.19	12
13	18.40	23.58	22.40	18.42	18.14	18.10	18.31	19.14	19.72	21.04	19.99	17.16	13
14	18.37	23.06	22.44	18.42	18.04	18.03	18.49	21.04	19.89	21.00	19.90	17.13	14
15	18.34	22.49	21.78	18.42	18.03	18.02	18.50	21.14	19.86	21.12	19.91	17.10	15
16	18.41	23.13	21.72	18.38	18.02	18.01	18.53	NR	19.86	21.23	19.95	17.07	16
17	18.50	22.64	21.38	18.47	18.01	18.00	18.50	NR	19.89	21.12	19.96	NR	17
18	18.43	22.97	21.31	18.45	18.01	17.99	18.48	NR	20.13	21.23	19.58	NR	18
19	18.40	22.57	21.18	18.51	18.04	17.98	18.38	NR	20.14	21.27	19.22	NR	19
20	18.41	22.60	20.80	18.48	18.10	17.97	18.58	NR	20.14	21.27	19.22	NR	20
21	18.31	22.71	20.41	18.46	18.08	17.95	18.80	NR	20.19	21.33	19.14	NR	21
22	18.05	22.35	20.05	18.46	18.06	17.94	18.84	NR	20.39	21.19	19.10	NR	22
23	18.04	22.12	19.57	18.44	18.06	17.93	18.79	NR	20.41	20.89	18.89	NR	23
24	18.04	25.86	19.55	18.48	18.04	17.92	18.77	NR	20.41	20.85	18.47	NR	24
25	18.03	23.32	19.49	18.43	18.05	17.91	18.70	NR	20.40	20.27	18.31	NR	25
26	18.15	22.12	19.48	18.44	18.07	17.90	18.66	NR	19.99	20.24	18.19	NR	26
27	18.34	22.14	19.52	18.44	18.04	18.06	18.90	NR	20.98	20.22	18.12	NR	27
28	18.35	24.17	19.42	18.43	18.03	18.38	19.19	NR	20.95	20.21	18.37	NR	28
29	18.41	21.71	19.39	18.45		18.38	19.26	NR	20.99	20.20	18.42	NR	29
30	18.43	21.12	19.38	18.42		18.20	19.43	19.10	20.94	20.23	18.30	NR	30
31	18.52		19.38	18.41		18.10		19.11		20.21	18.28		31

INSTANTANEOUS MAXIMUM GAGE HEIGHT, 1984-85

DATE TIME G.H.
November 24 1100 29.06

REMARKS:

Station located on downstream side of Bend Bridge approximately 6 miles northeast of Red Bluff.
Station established beginning of the 1967-68 water year as a radio and telemetry station.

Flow regulated by Shasta Dam since December 30, 1943. Flow affected by upstream diversions.
Transbasin diversions from the Trinity River Whiskeytown Reservoir via Judge Frances Carr
Powerplant began in April 1963.

Period of record for discharge is not available.
Period of record for gage height is 1978 to present.

The datum for this station from 1966 to present is 266.00, USED.

FOR PERIOD OF RECORD BEGINNING 1978:

	GAGE HEIGHT	DATE	TIME
INSTANTANEOUS MAXIMUM	47.50	March 1, 1983	1130

E = Estimated. NR = No Record.

TABLE B-2 (continued)
DAILY MEAN STAGE
(in feet)

STATION NUMBER: A02700 SACRAMENTO RIVER AT VINA BRIDGE

LOCATION: LAT 39-54-36, LONG 122-05-36, T24N, R02W, SEC. 28, MD B&M

TEHAMA COUNTY

DRAINAGE AREA: 10,930 SQ MILE (excluding Goose Lake Basin)

HYDROLOGIC AREA: A-13.B0

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1	65.76	65.72	68.13	66.34	65.62	65.27	65.49	65.80	65.70	67.01	66.48	65.55	1
2	65.75	65.77	67.80	65.97	65.62	65.27	65.56	65.86	65.72	67.11	66.47	65.58	2
3	65.74	66.20	69.51	65.80	65.64	65.26	65.69	65.85	65.66	67.16	66.50	65.59	3
4	65.78	66.06	69.81	65.78	65.61	65.28	65.63	65.84	65.63	67.11	66.57	65.51	4
5	65.80	65.86	69.60	65.74	65.62	65.35	65.55	65.85	65.43	67.12	66.51	65.38	5
6	65.79	65.90	69.62	65.74	65.59	65.40	65.53	65.87	65.50	67.13	66.43	65.26	6
7	65.74	66.02	69.38	65.80	65.68	65.75	65.48	65.85	65.60	67.16	66.51	65.32	7
8	65.57	66.30	69.27	65.99	69.09	66.04	65.41	65.85	65.93	67.21	66.48	65.68	8
9	65.41	66.43	69.16	65.88	68.14	65.68	65.28	65.89	66.07	67.27	66.46	65.97	9
10	65.29	66.24	70.00	66.06	66.71	65.79	65.21	65.86	66.05	67.32	66.51	65.71	10
11	65.73	68.42	72.05	65.89	66.30	66.16	65.19	65.81	66.02	67.09	66.50	65.28	11
12	65.68	69.97	70.20	65.79	66.10	65.80	65.19	65.74	65.96	67.12	66.51	65.20	12
13	65.49	71.94	69.56	65.70	65.73	65.62	65.36	65.70	65.94	67.14	66.52	NR	13
14	65.44	70.54	69.45	65.67	65.45	65.22	65.59	66.25	66.04	67.10	66.51	NR	14
15	65.40	69.70	69.15	65.67	65.37	65.20	65.61	67.18	66.04	67.25	66.49	NR	15
16	65.46	70.31	68.96	65.63	65.34	65.20	65.58	67.21	66.03	67.30	66.56	NR	16
17	65.59	70.22	68.51	65.68	65.29	65.19	65.56	66.70	66.00	67.25	66.60	NR	17
18	65.54	70.30	68.38	65.67	65.26	65.19	65.54	65.46	66.18	67.30	66.55	NR	18
19	65.49	69.98	68.18	65.75	65.36	65.19	65.48	65.68	66.23	67.37	66.08	NR	19
20	65.52	69.61	68.00	65.74	65.48	65.19	65.48	65.72	66.21	67.37	66.05	NR	20
21	65.48	70.32	67.56	65.71	65.44	65.18	65.72	65.67	66.21	67.45	66.02	NR	21
22	65.31	69.48	67.26	65.69	65.42	65.18	65.73	65.58	66.34	67.34	66.01	NR	22
23	65.26	69.26	66.63	65.68	65.39	65.17	65.68	65.55	66.41	67.21	65.96	NR	23
24	65.26	73.45	66.63	65.70	65.37	65.17	65.53	65.51	66.44	67.05	65.67	NR	24
25	65.23	71.45	66.56	65.65	65.35	65.18	65.44	65.76	66.45	66.61	65.60	NR	25
26	65.25	69.95	66.55	65.68	65.32	65.22	65.34	65.78	66.25	66.45	NR	NR	26
27	65.52	69.30	66.58	65.67	65.30	65.70	65.35	65.80	66.61	66.40	NR	NR	27
28	65.53	73.00	66.48	65.65	65.24	65.77	65.57	65.73	66.98	66.37	NR	NR	28
29	65.58	69.86	66.43	65.65		65.70	65.67	65.75	66.97	66.38	NR	NR	29
30	65.59	68.72	66.42	65.65		65.58	65.69	65.60	66.99	66.42	65.53	NR	30
31	65.61		66.40	65.60		65.49		65.62		66.40	65.53	NR	31

REMARKS:

Station located 250 feet above Vina-Corning Highway bridge, 2.6 miles southwest of Vina.

Flow regulated by Shasta Dam since December 30, 1943. Approximately 190,000 acre-feet diverted from the river between Keswick and Vina in addition to diversions from the tributaries. Transbasin diversions from the Trinity River Whiskeytown Reservoir via Judge Frances Carr Powerplant began in April 1963.

The maximum discharge is for the main river channel and does not include water by-passing the station on the left bank.

Period of record for discharge is April 1945 to date.

Period of record for gage height is same as discharge.

Mean daily discharge and peak discharge records, for this station, for the 1984-85 water year are available in the discharge section of this publication.

The datum for this station from 1945 to present is 100.0, USED.

The datum for this station from 1945 to present is 97.1, USCGS.

E = Estimated. NR = No Record.

TABLE B-2 (continued)
DAILY MEAN STAGE
(in feet)

STATION NUMBER: A02630 SACRAMENTO RIVER AT HAMILTON CITY

LOCATION: LAT 39-45-06, LONG 121-59-48, T22N, R01W, SEC. 20, MD B&M

BUTTE COUNTY

DRAINAGE AREA: 11,060 square miles (excluding Goose Lake Basin)

HYDROLOGIC AREA: A-13.B0

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1	29.64	29.62	31.72	30.31	29.69	29.37	29.57	29.38	29.20	30.10	29.69	28.97	1
2	29.65	29.65	31.40	30.08	29.70	29.37	29.62	29.42	29.18	30.17	29.73	29.01	2
3	29.63	29.96	32.60	29.88	29.69	29.36	29.71	29.43	29.17	30.20	29.72	29.03	3
4	29.66	29.96	32.93	29.85	29.69	29.38	29.67	29.40	29.12	30.17	29.78	29.01	4
5	29.69	29.85	32.78	29.82	29.68	29.44	29.56	29.38	28.97	30.17	29.77	28.89	5
6	29.68	29.86	32.81	29.82	29.67	29.50	29.52	29.43	28.93	30.19	29.67	28.79	6
7	29.68	29.98	32.62	29.84	29.72	29.71	29.50	29.40	29.01	30.22	29.73	28.83	7
8	29.52	30.12	32.52	29.99	31.68	30.02	29.44	29.43	29.24	30.25	29.71	29.11	8
9	29.39	30.34	32.39	29.94	32.10	29.77	29.29	29.45	29.42	30.30	29.68	29.51	9
10	29.25	30.12	32.02	30.05	30.69	29.77	29.24	29.44	29.41	30.36	29.72	29.43	10
11	29.52	31.34	34.77	29.95	30.29	30.12	29.16	29.42	29.37	30.18	29.72	29.02	11
12	29.67	32.93	33.41	29.86	30.13	29.88	29.08	29.32	29.28	30.21	29.73	28.94	12
13	29.46	34.34	32.83	29.78	29.88	29.74	29.19	29.31	29.26	30.22	29.72	28.81	13
14	29.39	33.71	32.63	29.75	29.61	29.40	29.40	29.49	29.30	30.19	29.74	28.81	14
15	29.38	32.88	32.50	29.76	29.51	29.28	29.45	30.49	29.33	30.31	29.68	28.67	15
16	29.39	33.03	32.25	29.72	29.46	29.28	29.39	30.49	29.30	30.32	29.77	28.67	16
17	29.51	33.39	31.97	29.75	29.43	29.28	29.38	30.36	29.31	30.33	29.80	28.68	17
18	29.50	33.15	31.85	29.74	29.40	29.26	29.35	29.16	29.39	30.32	29.83	28.45	18
19	29.45	33.09	31.69	29.79	29.43	29.25	29.30	29.30	29.48	30.39	29.47	28.53	19
20	29.46	32.64	31.59	29.80	29.56	29.24	29.22	29.30	29.46	30.39	29.40	28.62	20
21	29.45	33.31	31.25	29.78	29.54	29.20	29.42	29.26	29.47	30.46	29.36	28.60	21
22	29.31	32.67	31.08	29.76	29.52	29.13	29.46	29.16	29.52	30.43	29.33	28.43	22
23	29.16	32.48	30.56	29.76	29.49	29.06	29.41	29.14	29.63	30.36	29.32	28.39	23
24	29.16	35.44	30.52	29.76	29.48	29.08	29.27	29.05	29.66	30.21	29.10	28.37	24
25	29.11	34.95	30.48	29.73	29.46	29.19	29.15	29.25	29.66	29.94	28.97	28.43	25
26	29.10	33.21	30.46	29.74	29.43	29.20	29.05	29.31	29.63	29.74	28.85	28.55	26
27	29.37	32.31	30.48	29.74	29.41	29.70	29.03	29.33	29.60	29.68	28.78	28.57	27
28	29.42	35.75	30.41	29.73	29.36	29.76	29.17	29.29	30.06	29.64	28.78	28.60	28
29	29.46	33.32	30.37	29.72		29.76	29.30	29.28	30.05	29.67	28.99	28.62	29
30	29.51	32.18	30.35	29.72		29.65	29.28	29.13	30.10	29.68	28.98	28.65	30
31	29.51		30.34	29.70		29.60		29.11		29.69	28.94		31

REMARKS:

Station located at Gianella Bridge, State Highway 32, 1.0 mile northeast of Hamilton City.

Flow regulated by Shasta Dam since December 30, 1943. Approximately 950,000 acre-feet diverted from the river between Keswick and Hamilton City in addition to diversions from the tributaries. Transbasin diversions from the Trinity River Whiskeytown Reservoir via Judge Frances Carr Powerplant began in April 1963.

Prior to regulation by Shasta Lake, the Maximum discharge was 350,000 CFS at stage 22.60 feet on February 28, 1940. Zero of gage = 127.9, USED in 1940. The maximum discharges of record since February 1940, are for the main river channel and do not include water by-passing the station on the left bank.

Period of record for discharge is Spring 1945 to date. Period of record for gage height is 1927 to date.

Mean daily discharge and peak discharge records, for this station, for the 1984-85 water year are available in the discharge section of this publication.

The datum for this station from 1927 to 1945 is 127.9, USED.

The datum for this station from 1945 to present is 100.0 USED or 96.5 USGCS.

E = Estimated. NR = No Record.

TABLE B-2 (continued)
DAILY MEAN STAGE
(in feet)

STATION NUMBER: A02570 SACRAMENTO RIVER AT ORD FERRY

LOCATION: LAT 39-37-42, LONG 121-59-30, T21N, R01W, SEC. 19, MD B&M GLENN COUNTY

DRAINAGE AREA: 12480 square miles (excluding Goose Lake Basin) HYDROLOGIC AREA: A-07.D0

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1	47.49	47.45	50.89	48.52	47.60	47.17	47.47	47.06	46.80	48.03	47.48	46.48	1
2	47.55	47.49	50.40	48.28	47.63	47.15	47.50	47.16	46.80	48.09	47.52	46.53	2
3	47.52	47.84	51.48	47.95	47.60	47.15	47.60	47.17	46.83	48.14	47.54	46.56	3
4	47.53	47.99	51.99	47.89	47.60	47.17	47.59	47.13	46.73	48.15	47.60	46.58	4
5	47.58	47.82	51.73	47.84	47.59	47.25	47.45	47.11	46.59	48.11	47.61	46.43	5
6	47.58	47.82	51.62	47.82	47.59	47.34	47.38	47.15	46.43	48.15	47.51	46.30	6
7	47.59	47.91	51.40	47.84	47.64	47.54	47.33	47.13	46.57	48.17	47.53	46.28	7
8	47.40	48.11	51.24	48.00	49.30	47.99	47.28	47.14	46.76	48.24	47.52	46.60	8
9	47.23	48.46	51.08	48.00	51.35	47.78	47.09	47.18	47.10	48.29	47.49	47.18	9
10	47.05	48.23	51.59	48.06	49.22	47.68	46.96	47.19	47.10	48.38	47.54	47.27	10
11	47.22	49.25	53.35	48.03	48.58	48.22	46.90	47.18	47.04	48.20	47.54	46.69	11
12	47.63	51.48	52.46	47.91	48.32	47.98	46.75	47.03	46.93	48.20	47.56	46.53	12
13	47.31	52.72	51.69	47.76	48.04	47.74	46.84	47.01	46.90	48.20	47.54	46.35	13
14	47.19	52.76	51.47	47.71	47.63	47.34	47.11	46.98	46.90	48.19	47.59	46.33	14
15	47.17	51.70	51.43	47.72	47.44	47.10	47.22	46.46	46.97	48.28	47.51	46.20	15
16	47.17	51.52	51.18	47.69	47.37	47.08	47.16	48.50	46.92	48.34	47.60	46.10	16
17	47.33	52.28	50.89	47.66	47.31	47.06	47.16	48.55	46.97	48.38	47.67	46.15	17
18	47.35	51.74	50.58	47.71	47.26	47.02	47.09	47.06	46.99	48.32	47.73	45.90	18
19	47.28	51.89	50.38	47.73	47.23	47.03	46.93	46.99	47.17	48.43	47.34	45.86	19
20	47.26	51.28	50.25	47.76	47.42	46.99	46.92	46.99	47.14	48.43	47.11	46.03	20
21	47.26	52.00	49.84	47.74	47.42	46.93	47.11	46.95	47.17	48.49	47.07	46.02	21
22	47.15	51.39	49.60	47.71	47.38	46.84	47.22	46.82	47.19	48.54	46.99	45.86	22
23	46.92	51.09	49.03	47.71	47.34	46.76	47.20	46.79	47.36	48.46	47.01	45.73	23
24	46.85	53.36	48.87	47.70	47.33	46.75	47.00	46.68	47.42	48.20	46.76	45.73	24
25	46.81	54.66	48.80	47.69	47.30	46.87	46.86	46.83	47.41	47.98	46.54	45.74	25
26	46.80	52.12	48.72	47.66	47.25	46.93	46.70	46.97	47.48	47.58	46.39	45.92	26
27	47.05	51.03	48.72	47.68	47.23	47.64	46.66	46.98	47.21	47.49	46.30	45.94	27
28	47.20	54.23	48.67	47.67	47.16	47.67	46.80	46.97	47.89	47.42	46.22	45.97	28
29	47.24	50.12	48.59	47.65	47.72	46.98	46.95	47.93	47.46	46.46	46.01	29	
30	47.33	49.80	48.57	47.65	47.61	46.95	46.78	48.01	47.50	46.52	46.08	30	
31	47.35		48.53	47.63	47.51		46.72		47.49	46.46		31	

REMARKS:

Station located 0.1 miles below Ord Ferry.

Flow regulated by Shasta Dam since December 30, 1943. Approximately 980,000 acre-feet diverted from the river between Keswick and Ord Ferry in addition to diversions from the tributaries. Transbasin diversions from the Trinity River Whiskeytown Reservoir via Judge Frances Carr Powerplant began in April 1963.

Prior to regulation by Shasta Lake, the maximum discharge was 370,000 CFS at stage 121.70 ft on February 28, 1940. Zero of gage = 0.00, USED in 1940. Records of flows in excess of 70,000 CFS are not reliable due to an undetermined amount of water by-passing the station via Butte Basin.

Period of record for discharge is January 1948 to date. Period of record for gage height is 1921 to May 1927 (flood season only), February 1937 to May 1937, October 1937 to May 1939, November 1939 to May 1941, November 1941 to date.

Mean daily discharge and peak discharge records, for this station, for the 1984-85 water year are available in the discharge section of this publication.

The datum for this station from 1937 to 1960 is 0.00, USED.

The datum for this station from 1960 to present is 50.00, USED.

E = Estimated. NR = No record.

TABLE B-2 (continued)
DAILY MEAN STAGE
(in feet)

STATION NUMBER: A024450 SACRAMENTO RIVER AT MOULTON WEIR

LOCATION: LAT 39-20-18, LONG 122-01-18, T17N, R02W, SEC. 12, MD B&M COLUSA COUNTY

DRAINAGE AREA: Not available HYDROLOGIC AREA: A-07.D0

WATER YEAR OCTOBER 1984 through SEPTEMBER 1985

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15													15
16													16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31

GAGE HEIGHT DID NOT EXCEED CREST OF WEIR (76.75)
FOR THE ENTIRE WATER YEAR

INSTANTANEOUS MAXIMUM GAGE HEIGHT, 1984-85

DATE	TIME	G.H.
Not applicable		

REMARKS:

Station located west of south end of weir, 4.6 miles south of Princeton.

Gage heights below weir crest (elevation 76.75) are not indicative of flow over weir.

Discharge records for flow over Moulton Weir are available in this publication as station A02986, Moulton Weir Spill to Butte Basin near Colusa.

Period of record for gage height is January 1935 to date (flood season only).

The datum for this station from 1935 to present is 0.00, USED.

FOR PERIOD OF RECORD BEGINNING 1935:

	GAGE HEIGHT	DATE	TIME
INSTANTANEOUS MAXIMUM	83.8	February 7, 1942	NR

E = Estimated. NR = No record.

TABLE B-2 (continued)
DAILY MEAN STAGE
(in feet)

STATION NUMBER: A02450 SACRAMENTO RIVER OPPOSITE MOULTON WEIR
LOCATION: LAT 39-20-13, LONG 122-01-50, T17N, R2W, SEC. 12 MD B&M COLUSA COUNTY
DRAINAGE AREA: Not available HYDROLOGIC AREA: A-07.D0

[illegible]

INSTANTANEOUS MAXIMUM GAGE HEIGHT , 1984-85		
DATE	TIME	G.H.
NR		

REMARKS:

Station located immediately west of weir, 4.8 miles south of Princeton.

Period of record for discharge is March 1954 to September 1969. Period of record for gage height is 1915 to February 8, 1984 and October 1, 1986 to date.

The datum for this station from 1915 to present is 0.00, USED.

FOR PERIOD OF RECORD BEGINNING 1957:

	GAGE HEIGHT	DATE	TIME
INSTANTANEOUS MAXIMUM	83.04	December 24, 1964	1000

E = Estimated. NR = No Record.

TABLE B-2 (continued)
DAILY MEAN STAGE
(in feet)

STATION NUMBER: A02430 SACRAMENTO RIVER AT COLUSA WEIR

LOCATION: LAT 39-14-07, LONG 121-59-50, T16N, R1W, SEC. 17, MD B&M COLUSA COUNTY

DRAINAGE AREA: Not available HYDROLOGIC AREA: A-07.D0

WATER YEAR OCTOBER 1984 through SEPTEMBER 1985

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8	N		N	N	N	N	N	N	N	N	N	N	8
9													9
10	O		O	O	O	O	O	O	O	O	O	O	10
11													11
12													12
13													13
14													14
15	R		R	R	R	R	R	R	R	R	R	R	15
16	E		E	E	E	E	E	E	E	E	E	E	16
17													17
18	C		C	C	C	C	C	C	C	C	C	C	18
19													19
20	O		O	O	O	O	O	O	O	O	O	O	20
21	R		R	R	R	R	R	R	R	R	R	R	21
22													22
23	D		D	D	D	D	D	D	D	D	D	D	23
24													24
25		63.02 A											25
26		62.16 A											26
27													27
28		61.88 A											28
29		62.34 A											29
30													30
31													31

INSTANTANEOUS MAXIMUM GAGE HEIGHT, 1984-85

DATE	TIME	G.H.
November 25	1245	63.41

REMARKS:

Station located at north end of weir, 2.0 miles north of Colusa.

Gage heights below weir crest (elevation 61.80 feet) are not indicative of flow over weir.

Discharge records are available in this publication as station A02981, Colusa Weir Spill to Butte Basin.

Period of record for gage height is 1935 to date.

The datum for this station from 1935 to present is 0.00, USED.

FOR PERIOD OF RECORD BEGINNING 1940:

	GAGE HEIGHT	DATE	TIME
INSTANTANEOUS MAXIMUM	70.6	March 1, 1940	NA

A = Mean gage height for period of flow.

E = Estimated. NR = No Record.

TABLE B-2 (continued)
DAILY MEAN STAGE
(in feet)

STATION NUMBER: A02301 SACRAMENTO RIVER AT TISDALE WEIR

LOCATION: LAT 39-01-38, LONG 121-49-16, T14N, R1E, SEC 35, MD B&M

SUTTER COUNTY

DRAINAGE AREA: Not available

HYDROLOGIC AREA: A-07.A0

WATER YEAR OCTOBER 1984 through SEPTEMBER 1985

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1													1
2													2
3													3
4													4
5			45.50A										5
6													6
7													7
8	N			N	N	N	N	N	N	N	N	N	8
9													9
10	O			O	O	O	O	O	O	O	O	O	10
11			45.86A										11
12			46.94										12
13			46.40										13
14		46.40A	45.71A										14
15	R	46.04		R	R	R	R	R	R	R	R	R	15
16	E	45.47A		E	E	E	E	E	E	E	E	E	16
17		45.48A											17
18	C	45.58A		C	C	C	C	C	C	C	C	C	18
19													19
20	O			O	O	O	O	O	O	O	O	O	20
21	R			R	R	R	R	R	R	R	R	R	21
22													22
23	D			D	D	D	D	D	D	D	D	D	23
24													24
25		47.36A											25
26		47.27											26
27		46.15A											27
28		46.26A											28
29		47.42											29
30		46.42A											30
31													31

INSTANTANEOUS MAXIMUM GAGE HEIGHT, 1984-85

DATE TIME G.H.
NR

REMARKS:

Station located west of north end of weir, 5.0 miles southeast of Grimes.

Gage heights below weir crest (elevation 45.45 feet) are not indicative of flow over weir.

Discharge records are available as station A02960, Tisdale Weir Spill to Sutter Bypass.

Period of record for gage height is January 1935 to date (flood season only).

The datum for this station from 1935 to present is 0.00, USED.

FOR PERIOD OF RECORD FOR GAGE HEIGHT FROM 1935:

INSTANTANEOUS MAXIMUM	GAGE HEIGHT	DATE	TIME
	53.3	March 1, 1940	NA

A = Mean gage height for period of flow.

E = Estimated. NR = No Record.

TABLE B-2 (continued)
DAILY MEAN STAGE
(in feet)

STATION NUMBER: A02976 COLUSA BASIN DRAIN AT HIGHWAY 20

LOCATION: LAT 39-11-42, LONG 122-03-36, T16N, R02W, SEC. 34, MD B&M COLUSA COUNTY

DRAINAGE AREA: Not available

HYDROLOGIC AREA: A-07.B1

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1	39.90	39.97	42.61	38.85	38.23	38.53	38.64	39.78	44.17	43.17	44.55	45.56	1
2	39.79	40.03	41.97	38.83	38.13	38.46	39.16	39.99	43.69	43.29	44.67	45.62	2
3	39.57	39.85	44.60	38.66	38.12	38.33	38.79	39.92	43.18	43.27	44.54	45.93	3
4	39.47	39.64	45.91	38.55	38.08	38.28	38.70	40.28	42.81	43.59	44.55	46.42	4
5	39.51	39.62	45.01	38.35	38.02	38.18	38.65	40.53	42.65	43.77	44.40	46.44	5
6	39.91	39.64	43.98	38.34	38.03	38.37	38.77	40.78	42.42	43.72	44.40	46.44	6
7	39.95	39.89	42.68	38.61	38.03	38.69	39.01	41.26	41.67	43.66	44.39	46.54	7
8	39.97	40.28	41.84	38.94	39.17	39.09	39.92	41.41	41.35	43.81	44.24	47.02	8
9	39.59	40.12	41.29	38.94	38.92	38.52	39.14	42.32	41.22	43.77	44.26	48.14	9
10	39.30	40.14	42.65	38.80	38.41	38.39	39.70	42.83	41.32	43.60	44.18	48.80	10
11	39.65	41.68	44.74	38.74	38.24	38.91	40.98	43.10	40.74	43.59	44.22	48.84	11
12	40.01	42.27	43.79	39.07	38.16	38.79	39.66	43.51	40.16	44.07	44.14	48.46	12
13	39.63	45.06	42.37	39.81	38.12	38.51	39.89	44.29	40.63	44.29	44.04	47.60	13
14	39.16	46.28	41.54	40.07	38.09	38.35	40.14	44.80	40.15	44.65	44.10	46.46	14
15	39.07	45.69	40.92	40.60	38.09	38.42	40.18	44.75	39.58	44.41	44.03	45.03	15
16	38.66	46.55	40.64	40.24	38.09	38.28	40.39	44.34	39.42	44.07	44.20	43.95	16
17	38.78	47.63	40.31	40.10	38.07	38.46	41.14	43.77	39.58	43.94	44.37	43.64	17
18	38.84	47.05	39.97	39.62	38.10	38.42	41.22	44.05	39.91	44.03	44.88	43.15	18
19	39.03	46.02	39.68	39.30	38.07	38.31	40.86	44.24	40.59	44.20	45.40	42.41	19
20	39.53	44.68	39.65	39.27	38.08	38.23	40.34	44.33	41.92	44.25	45.46	41.81	20
21	39.48	45.39	39.48	39.18	38.06	38.43	40.61	44.58	42.45	44.42	45.37	41.33	21
22	39.53	44.63	39.26	39.44	38.02	38.21	40.86	44.54	42.64	44.89	45.35	41.47	22
23	39.53	43.12	39.19	39.19	38.09	38.07	40.92	44.12	42.99	44.91	45.45	41.33	23
24	39.65	44.17	39.13	39.04	38.12	38.15	40.25	44.01	43.13	44.63	45.54	40.96	24
25	39.81	45.89	39.07	38.83	38.08	38.11	39.86	44.19	42.64	44.20	45.47	40.74	25
26	39.74	44.96	39.05	38.58	38.47	38.15	40.29	43.89	42.14	44.06	45.25	41.01	26
27	39.89	43.56	39.02	38.45	38.13	38.79	39.33	43.95	42.19	44.05	45.56	41.01	27
28	39.84	45.38	38.98	38.44	38.18	38.56	38.55	44.03	42.46	44.36	45.44	40.81	28
29	40.05	45.22	38.94	38.39		38.43	38.52	44.52	42.95	44.41	45.46	40.72	29
30	40.01	43.62	38.95	38.41		38.39	38.18	44.63	43.22	44.41	45.70	40.67	30
31	39.92		38.92	38.31		38.33		44.55		44.43	45.64		31

REMARKS:

Station located on the downstream side of the State Highway 20 bridge, 3.0 miles west of Colusa.

Stage-discharge relationship affected by backwater conditions created by downstream diversion structures.

Station moved from the upstream side of the bridge on June 14, 1979 to its present location.

Period of record for discharge is June 1924 to December 1940 (irrigation season only), May 1941 to date. Period of record for gage height is same as discharge.

Mean daily discharge and peak discharge records, for this station, for the 1984-85 water year are available in the discharge section of this publication.

The datum for this station from 1957 to present is 0.0, USED. Prior to 1957, the datum was 37.09, USED.

E = Estimated. NR = No record.

TABLE B-2 (continued)
DAILY MEAN STAGE
(in feet)

STATION NUMBER: A02945 COLUSA BASIN DRAIN AT KNIGHTS LANDING

LOCATION: LAT 38-48-06, LONG 121-43-18, T11N, R02E, SEC. 14, MD B&M

YOLO COUNTY

DRAINAGE AREA: Not available

HYDROLOGIC AREA: A-07.DO

WATER DAY	YEAR OCT	OCTOBER NOV	1984 DEC	through JAN	SEPTEMBER FEB	1985 MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1	23.27	23.60	27.61	22.37	22.18	22.64	23.07	23.70	25.08	24.93	24.81	24.55	1
2	22.55	23.80	27.28	22.28	22.13	22.77	23.08	24.12	24.83	24.66	24.84	24.62	2
3	22.34	24.10	27.29	22.25	22.00	23.00	23.09	24.60	24.53	24.96	24.73	24.66	3
4	22.54	23.75	27.86	22.07	21.92	23.06	23.06	24.38	24.65	24.69	24.63	24.87	4
5	22.54	22.90	28.02	21.95	21.95	23.06	23.00	24.15	24.85	24.87	24.81	25.25	5
6	22.56	21.90	27.87	22.41	22.59	23.07	22.93	24.11	24.71	25.02	24.89	25.48	6
7	22.73	21.62	27.58	22.76	23.06	23.08	22.89	24.78	24.42	25.07	24.84	25.58	7
8	22.85	21.71	27.22	23.03	23.53	23.09	23.01	25.27	24.64	25.02	24.80	25.62	8
9	22.92	21.96	26.92	23.04	24.32	23.09	23.14	24.74	24.84	24.78	24.64	25.88	9
10	22.81	22.04	26.77	23.05	25.27	23.09	23.04	24.59	24.67	24.68	24.40	26.24	10
11	22.74	22.27	27.20	23.05	25.43	23.08	23.14	24.50	24.78	24.79	24.27	26.29	11
12	22.56	23.08	27.56	23.05	24.77	23.08	23.69	24.69	24.85	24.86	24.32	26.36	12
13	21.89	25.61	27.33	23.05	23.89	23.07	23.61	24.93	24.67	24.94	24.36	26.49	13
14	21.54	27.69	26.93	23.05	23.18	23.07	23.55	24.97	24.83	25.14	24.41	26.44	14
15	21.22	28.11	26.73	23.07	23.07	23.08	23.59	25.10	24.53	25.11	24.40	26.21	15
16	21.01	28.21	26.52	23.19	23.07	23.08	23.68	24.94	24.65	24.85	24.42	25.55	16
17	20.88	28.39	26.36	23.57	23.07	23.08	23.88	24.75	24.78	24.73	24.42	24.74	17
18	20.84	28.56	26.21	23.79	23.06	23.08	24.22	24.87	24.79	24.73	24.48	24.31	18
19	20.85	28.65	26.11	23.22	23.07	23.08	24.45	25.05	24.65	24.74	24.68	24.02	19
20	20.94	28.56	26.03	23.05	23.04	23.07	24.47	25.05	24.80	24.60	24.74	23.20	20
21	21.15	28.40	25.95	23.05	23.03	23.08	24.26	24.79	24.95	24.92	25.00	22.76	21
22	21.19	28.27	25.88	23.06	23.01	23.06	24.22	24.76	24.96	24.93	24.77	22.46	22
23	21.24	27.95	25.56	23.04	23.00	23.04	24.27	24.80	25.17	24.93	24.39	22.34	23
24	21.27	27.65	24.97	22.99	23.01	23.06	24.24	24.72	25.04	24.90	24.31	22.23	24
25	21.29	27.88	24.19	22.92	23.04	23.06	24.04	24.70	24.48	24.73	24.34	22.08	25
26	21.69	28.06	23.74	23.01	22.97	23.01	23.86	24.85	24.77	24.76	24.23	21.96	26
27	22.38	27.90	23.48	22.97	23.02	23.08	23.72	24.92	24.74	24.90	24.10	22.02	27
28	22.65	28.03	23.16	22.79	22.79	23.08	23.23	24.87	24.70	24.90	24.13	21.99	28
29	22.77	28.15	22.99	22.46		23.08	23.02	24.96	24.77	24.91	24.17	21.92	29
30	22.90	28.01	22.71	22.20		23.08	23.57	25.12	25.07	24.84	24.35	21.86	30
31	23.25		22.50	22.21		23.08		25.16		24.73	24.45		31

REMARKS:

Station located at Knights Landing Outfall Gates, 0.3 miles west of Knights Landing.
Tributary to Sacramento River.

Flow regulated by outfall gates.

Period of record for discharge is May 1924 to October 1939 (irrigation season only),
January 1940 to date. Period of record for gage height is same discharge.

Mean daily discharge and peak discharge records, for this station, for the 1984-85 water year
are available in the discharge section of this publication.

The datum for this station from 1924 to present is 0.0, USED.

E = Estimated. NR = No record.

TABLE B-2 (continued)
DAILY MEAN STAGE
(in feet)

STATION NUMBER: A02200 SACRAMENTO RIVER AT KNIGHTS LANDING

LOCATION: LAT 38-48-12, LONG 121-42-54, T11N, R02E, SEC. 14, MD B&M SUTTER COUNTY

DRAINAGE AREA: Not available HYDROLOGIC AREA: A-07.A0

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1	18.82	17.80	29.93	21.81	19.21	18.39	19.26	14.90	18.14	18.24	17.91	NR	1
2	18.90	18.03	28.66	21.73	19.12	18.26	19.00	14.95	18.12	18.34	17.91	NR	2
3	18.74	18.38	27.82	21.59	19.10	18.12	18.88	15.32	18.11	18.46	17.99	NR	3
4	18.60	18.85	28.46	21.06	19.08	18.05	18.89	15.74	17.80	18.83	17.98	NR	4
5	18.51	19.47	29.89	20.67	19.13	17.98	18.77	15.85	17.16	18.87	17.97	NR	5
6	18.58	19.37	29.98	20.29	18.98	18.06	18.48	15.87	16.98	18.80	17.95	NR	6
7	18.72	19.17	29.70	20.21	18.95	18.39	18.30	15.64	16.25	18.72	17.85	NR	7
8	18.74	19.32	29.33	20.29	19.37	19.09	18.24	15.79	15.69	18.79	17.73	NR	8
9	18.53	19.71	28.86	20.54	23.95	19.77	18.12	16.12	15.70	18.87	17.74	NR	9
10	18.10	20.38	28.57	20.72	27.31	19.85	17.76	16.31	16.25	18.86	17.84	NR	10
11	17.73	20.69	28.88	20.69	25.32	19.72	17.24	16.53	16.49	18.87	17.83	NR	11
12	17.76	21.64	30.60	20.75	23.42	20.36	16.95	16.56	16.46	18.95	17.84	NR	12
13	18.50	25.14	30.94	20.52	22.14	20.44	16.69	16.64	16.19	18.87	17.79	NR	13
14	18.34	27.95	30.32	20.42	21.18	19.87	16.45	16.79	15.72	19.01	17.76	NR	14
15	17.86	29.25	29.63	20.29	20.12	19.11	16.78	17.01	15.47	19.29	17.82	NR	15
16	17.60	28.82	29.24	20.32	19.38	18.27	17.20	18.63	15.23	19.38	17.85	NR	16
17	17.48	28.22	28.87	20.19	19.02	17.89	17.30	19.77	15.27	19.55	17.92	NR	17
18	17.51	28.96	28.33	20.10	18.84	17.81	17.37	19.95	15.26	19.66	18.14	NR	18
19	17.66	28.80	27.55	20.26	18.67	17.73	17.38	18.78	15.46	19.68	18.46	NR	19
20	17.62	28.89	26.93	19.96	18.66	17.69	17.22	17.36	15.63	19.82	18.40	NR	20
21	17.62	28.39	26.44	20.01	18.93	17.56	16.99	17.25	15.98	19.83	17.70	NR	21
22	17.58	28.63	25.78	19.87	19.10	17.36	16.95	17.28	16.21	20.07	NR	NR	22
23	17.47	28.51	25.09	19.76	19.08	17.22	17.17	17.14	16.24	20.25	NR	NR	23
24	17.06	27.91	24.37	19.62	18.98	17.03	17.03	17.10	16.72	20.23	NR	NR	24
25	16.80	29.48	23.58	19.52	18.94	16.93	16.62	17.23	17.04	20.01	NR	NR	25
26	16.69	31.00	23.18	19.44	18.89	16.96	16.25	17.23	16.81	19.49	NR	NR	26
27	16.75	30.48	22.93	19.33	18.85	17.62	15.76	17.54	16.77	18.74	NR	NR	27
28	16.94	29.67	22.60	19.31	18.67	18.66	15.18	17.76	16.47	18.29	NR	NR	28
29	17.38	31.12	22.46	19.29	19.54	14.76	17.96	17.06	18.11	NR	NR	NR	29
30	17.56	31.13	22.14	19.31	19.78	14.85	18.15	17.73	17.96	NR	NR	NR	30
31	17.68		21.94	19.22		19.66	18.24		17.94	NR			31

INSTANTANEOUS MAXIMUM GAGE HEIGHT, 1984-85

DATE TIME G.H.
November 1 1945 31.45

REMARKS:

Station located just above the Southern Pacific Railroad bridge, 13.1 miles above Feather River immediately northeast of Knights Landing.

Station affected by backwater from Feather River and Sutter Bypass during periods of high flow.

Currently maintained by the Department since October 1983 as a stage only station. Formerly operated by the USGS (USGS station number 11391000) as a discharge station from 1921 to 1980.

Period of record for discharge is April 1921 to October 1939 (low water periods only), June 1940 to September 1980. Period of record for gage height is October 1983 to date.

The datum for this station from 1919 to present is -3.02, USCGS.

FOR PERIOD OF RECORD BEGINNING 1921:

INSTANTANEOUS MAXIMUM	GAGE HEIGHT	DATE	TIME
	41.83	February 8, 1942	NA

E = Estimated. NR = No record.

TABLE B-2 (continued)
DAILY MEAN STAGE
(in feet)

STATION NUMBER: A02972 BUTTE SLOUGH NEAR MERIDIAN

LOCATION: LAT 39-10-05, LONG 121-53-28, T15N, R01E, SEC. 06, MD B&M

SUTTER COUNTY

DRAINAGE AREA: Not available

HYDROLOGIC AREA: A-07.C0

WATER YEAR	OCTOBER	1984	through	SEPTEMBER	1985									
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY	
1	40.77	42.15	48.21	43.14	41.57	40.67	41.73	41.51	43.01	42.43	44.27	45.71	1	
2	40.87	41.61	48.09	43.15	41.45	40.89	41.70	41.69	42.97	42.45	44.29	45.66	2	
3	40.82	40.76	47.94	42.86	41.43	40.53	41.92	41.91	42.71	42.63	44.00	45.67	3	
4	40.81	41.25	47.81	42.45	41.44	40.49	42.05	42.35	42.25	43.04	43.56	45.79	4	
5	40.87	41.50	47.71	42.32	41.35	40.54	41.93	42.17	42.15	43.16	43.40	45.90	5	
6	40.90	41.20	47.58	42.30	41.31	40.75	41.79	41.91	42.12	43.24	43.18	45.95	6	
7	40.93	41.14	47.39	42.32	41.25	41.24	41.66	41.80	42.73	43.20	43.18	45.96	7	
8	40.96	41.48	47.07	42.47	41.51	41.66	41.78	41.88	42.42	43.27	43.33	46.02	8	
9	40.99	42.01	46.76	42.77	44.26	42.15	42.10	41.76	41.96	43.02	43.40	46.40	9	
10	40.99	42.62	46.50	42.89	46.53	41.98	42.01	41.57	42.18	42.66	43.41	46.90	10	
11	40.97	42.89	46.53	42.95	45.87	41.96	41.77	41.54	42.06	42.52	43.49	47.11	11	
12	41.05	45.13	46.66	42.86	44.64	42.61	41.32	41.56	41.88	42.62	43.52	47.18	12	
13	41.16	47.11	46.61	42.83	43.82	42.58	41.55	42.05	41.80	42.96	43.53	47.19	13	
14	41.13	47.50	46.45	42.65	43.12	41.85	42.66	42.60	41.72	43.39	43.61	47.06	14	
15	41.03	47.67	46.21	42.81	42.47	41.21	42.89	42.80	41.74	43.79	43.73	46.84	15	
16	40.88	47.74	46.01	43.08	41.99	41.43	42.90	43.07	42.20	44.14	43.79	46.60	16	
17	40.88	47.72	46.51	43.09	41.82	41.42	42.67	42.73	42.17	44.07	44.24	45.86	17	
18	40.76	47.76	46.48	42.94	41.66	41.42	42.01	42.57	41.65	43.85	44.69	45.08	18	
19	40.90	47.77	46.22	42.76	41.50	41.41	41.94	41.95	41.22	43.67	45.10	44.60	19	
20	41.31	47.77	45.99	42.62	41.53	41.41	42.05	42.52	41.29	43.43	45.76	44.33	20	
21	41.72	47.78	45.80	42.50	41.48	41.63	42.16	42.82	41.57	43.49	46.06	43.95	21	
22	41.99	47.72	45.32	42.43	41.34	42.19	42.30	42.98	41.79	43.70	46.01	43.56	22	
23	42.21	47.66	44.87	42.31	41.22	42.18	42.44	43.30	41.70	44.00	45.91	43.31	23	
24	42.50	47.59	44.61	42.25	41.11	41.92	42.04	43.18	42.13	44.14	45.93	42.78	24	
25	42.67	47.69	44.35	42.12	41.10	42.23	41.40	43.02	42.88	44.26	45.89	42.10	25	
26	42.43	48.03	44.15	42.04	40.96	42.70	41.27	42.96	43.04	44.29	45.73	41.36	26	
27	41.85	48.09	43.87	41.93	40.89	41.48	41.56	42.94	42.81	44.26	45.42	40.96	27	
28	41.68	48.16	43.75	41.88	40.78	42.55	41.45	42.79	42.64	44.24	45.27	41.07	28	
29	41.74	48.19	43.59	41.83		42.49	41.45	42.88	42.42	44.31	45.22	41.22	29	
30	41.84	48.24	43.35	41.77		42.32	41.50	43.09	42.37	44.35	45.39	41.27	30	
31	41.95		43.21	41.71		41.97		43.01		44.31	45.61		31	

REMARKS:

Station located on right bank 0.5 miles upstream from Farman Road 1.7 miles northeast of Meridian. Tributary to Sutter Bypass.

Stage-discharge relationship affected by backwater conditions created by downstream diversion structures. Flow during summer months is made up almost entirely of return water from lands irrigated by Feather River diversions. During flood periods, Sacramento River water enters Butte Basin above Butte City from bank spill and spill over Moulton and Colusa Weirs.

Period of record for discharge is January 1939 to date. Period of record for gage height is November 1934 to May 1937 (flood season only), October 1937 to date.

Mean daily discharge and peak discharge records, for this station, for the 1984-85 water year are available in the discharge section of this publication.

The datum for this station from 1934 to present is 0.0, USED.

E = Estimated. NR = No record.

TABLE B-2 (continued)
DAILY MEAN STAGE
(in feet)

STATION NUMBER: A05929 WADSWORTH CANAL NEAR SUTTER (upper station)

LOCATION: LAT 39-09-12, LONG 121-44-00, T15N, R02E, SEC. 15, MD B&M

SUTTER COUNTY

DRAINAGE AREA: Not available

HYDROLOGIC AREA: A-07.C0

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1	NR	39.75	40.00	39.01	38.73	38.50	40.70	39.04	40.72	39.72	39.72	41.19	1
2	NR	39.10	39.87	38.97	38.72	38.63	NR	39.69	40.61	39.45	39.59	41.24	2
3	NR	38.68	40.56	38.94	38.71	38.61	40.19	39.87	40.85	39.52	39.71	41.42	3
4	40.26	38.56	40.25	38.97	38.71	38.15	40.08	40.26	40.77	39.54	39.68	41.54	4
5	40.41	38.66	40.00	38.94	38.69	38.48	40.03	40.00	40.55	39.25	39.50	41.69	5
6	40.26	38.65	39.85	38.95	38.69	38.11	40.25	39.88	40.36	39.01	39.38	41.58	6
7	40.27	38.61	39.70	38.97	38.73	38.66	40.31	39.51	39.98	39.21	39.74	41.52	7
8	40.33	38.72	39.57	38.96	40.24	39.56	40.18	39.38	40.37	39.30	39.69	41.86	8
9	40.25	38.66	39.50	38.95	39.98	40.36	40.01	39.97	40.24	38.80	39.76	42.18	9
10	40.33	38.64	39.70	38.94	39.51	40.55	40.32	39.98	39.84	38.74	39.78	42.42	10
11	40.49	38.86	39.77	38.91	39.35	40.51	39.84	39.56	39.30	39.23	39.56	42.18	11
12	40.45	39.15	39.67	38.89	39.24	39.89	40.04	39.75	39.18	39.35	39.52	41.73	12
13	40.30	39.55	39.57	38.94	39.16	39.75	40.46	39.96	38.91	39.51	39.66	41.59	13
14	40.28	39.33	39.49	38.95	39.09	39.95	40.98	39.95	38.71	39.97	40.11	41.42	14
15	40.31	39.07	39.74	38.91	39.05	40.12	40.76	40.19	39.01	39.93	40.22	41.21	15
16	40.28	39.18	40.00	38.86	39.02	40.12	40.08	39.84	39.19	39.83	40.14	41.02	16
17	40.12	39.26	39.71	38.84	38.99	40.25	40.37	39.66	39.35	39.69	39.84	40.85	17
18	40.29	39.81	39.61	38.85	38.96	40.32	40.32	40.55	38.89	39.73	40.10	40.79	18
19	40.25	39.50	39.58	38.83	38.94	40.16	40.49	40.88	38.58	39.82	40.34	40.79	19
20	39.98	39.43	39.44	38.81	38.89	39.91	40.59	40.74	38.58	39.46	40.38	40.62	20
21	39.97	39.60	39.35	38.89	38.84	39.75	40.68	40.80	38.90	39.54	40.44	40.37	21
22	39.96	39.41	39.32	38.94	38.84	39.84	40.25	40.69	39.66	39.76	40.47	40.22	22
23	40.12	39.26	39.25	38.88	38.81	40.40	39.92	40.66	39.71	39.56	40.38	40.11	23
24	40.07	40.70	39.25	38.83	38.79	40.56	39.95	41.22	39.60	39.59	40.77	40.05	24
25	39.97	40.40	39.20	38.80	38.76	40.48	40.26	40.84	39.50	39.50	40.63	40.16	25
26	39.96	39.96	39.17	38.79	38.75	40.50	40.46	40.89	39.61	39.51	41.01	40.22	26
27	39.92	40.27	39.14	38.75	38.64	41.33	40.19	41.08	39.53	39.35	41.04	40.22	27
28	39.99	41.99	39.11	38.73	38.71	40.99	39.46	40.93	39.55	39.48	41.02	40.25	28
29	40.07	40.81	39.07	38.75		41.00	38.84	40.64	39.60	39.64	40.95	40.31	29
30	40.05	40.24	39.04	38.75		41.14	39.21	40.61	39.85	39.68	41.04	40.28	30
31	40.17		39.03	38.74		41.10		40.60		39.76	41.08		31

REMARKS:

Station located at South Butte Road bridge, 0.9 miles east of Sutter. Tributary to Sutter Bypass.

This station and one 2.2 miles downstream are used to determine the slope for rating of canal. This flow and flow of Butte Slough to Sutter Bypass make up entire Feather River contribution to the Sutter Bypass. Stage-discharge relationship affected by backwater conditions created by downstream diversion structures.

Records from January 1939 to March 1961 previously published as Wadsworth Canal at Butte House Road. Period of record for discharge is March 1961 to date. Period of record for gage height is same as discharge.

Mean daily discharge and peak discharge records, for this station, for the 1984-1985 water year are available in the discharge section of this publication.

The datum for this station from 1961 to present is 0.00, USED.

E = Estimated. NR = No Record.

TABLE B-2 (continued)
DAILY MEAN STAGE
(in feet)

STATION NUMBER: A02927 SUTTER BYPASS AT RECLAMATION DISTRICT 1500 PUMPING PLANT
LOCATION: LAT 38-47-06, LONG 121-39-12, T11N, R03E, SEC. 20, MD B&M SUTTER COUNTY
DRAINAGE AREA: Not available HYDROLOGIC AREA: A-07.A0

WATER DAY	YEAR OCT	OCTOBER NOV	1984 DEC	through JAN	SEPTEMBER FEB	1985 MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1	15.09	13.85	26.47	17.33	14.61	14.43	15.38	12.42	16.11	14.87	15.60	15.88	1
2	15.13	14.25	25.56	17.26	14.63	14.21	15.00	12.63	16.02	15.07	15.61	15.90	2
3	14.76	14.49	24.65	17.15	14.76	14.03	14.83	13.06	15.85	15.22	15.60	15.85	3
4	14.46	14.47	24.21	16.81	14.68	13.95	14.82	13.46	15.68	15.46	15.52	15.85	4
5	14.27	14.66	24.62	16.43	14.81	13.73	14.73	13.61	15.28	15.38	15.44	15.79	5
6	14.28	14.67	24.83	15.98	14.76	13.74	14.51	13.64	14.93	15.29	15.34	15.95	6
7	14.61	14.65	24.67	15.88	14.67	14.24	14.28	13.36	14.44	15.17	15.16	16.47	7
8	14.58	14.82	24.34	15.98	15.65	15.36	14.21	13.34	14.07	15.16	15.06	16.08	8
9	14.60	15.24	23.91	16.17	21.38	15.60	14.31	13.42	13.78	15.19	15.06	16.30	9
10	14.34	15.65	23.51	16.46	22.68	15.62	14.18	13.51	14.19	15.12	15.11	16.91	10
11	14.18	16.00	23.50	16.35	21.02	16.00	13.66	13.71	14.32	15.06	15.11	17.38	11
12	14.01	16.62	24.31	16.27	19.17	16.50	13.35	13.85	14.27	15.12	15.14	17.43	12
13	14.42	18.84	25.20	16.10	17.82	16.21	13.23	14.06	14.05	15.17	15.19	17.13	13
14	14.51	21.19	25.21	16.06	16.83	15.64	13.21	14.28	13.67	15.39	15.17	16.93	14
15	14.18	22.69	24.57	15.92	15.92	15.01	13.59	14.61	13.34	15.74	15.19	16.69	15
16	13.87	22.85	24.07	15.89	15.21	14.30	14.11	15.28	13.26	15.98	15.33	16.33	16
17	13.64	22.40	23.72	15.74	14.94	13.96	14.23	15.88	13.35	16.33	15.50	16.11	17
18	13.52	22.70	23.24	15.66	14.72	13.87	14.15	15.95	13.50	16.37	15.64	15.82	18
19	13.57	22.83	22.64	15.67	14.59	13.76	14.23	15.31	13.56	16.49	15.88	15.31	19
20	13.57	22.91	22.12	15.40	14.57	13.75	14.08	14.70	13.55	16.50	15.96	14.41	20
21	13.55	22.72	21.65	15.30	14.98	13.48	13.93	14.74	13.72	16.47	16.29	14.17	21
22	13.53	22.71	21.12	15.12	15.32	13.27	14.01	14.85	13.79	16.58	16.33	14.09	22
23	13.50	22.70	20.52	14.96	15.36	13.27	14.01	14.91	13.83	16.75	16.20	13.79	23
24	13.19	22.38	19.95	14.80	15.28	13.30	13.62	14.92	14.22	16.78	16.05	13.33	24
25	13.01	23.27	19.35	14.69	15.23	13.34	13.26	15.15	14.50	16.66	16.03	12.95	25
26	13.10	24.87	18.93	14.63	15.22	13.39	13.10	15.21	14.30	16.33	15.97	12.63	26
27	13.15	25.49	18.61	14.56	15.20	14.31	12.83	15.39	14.11	15.89	15.93	12.62	27
28	13.20	25.64	18.17	14.46	14.86	15.20	12.54	15.58	14.04	15.63	15.90	12.79	28
29	13.42	25.84	17.85	14.48		15.80	12.35	15.78	14.31	15.52	15.84	12.78	29
30	13.53	26.54	17.58	14.51		15.93	12.21	15.93	14.61	15.51	15.78	12.74	30
31	13.64		17.41	14.54		15.85		16.02		15.59	15.85		31

INSTANTANEOUS MAXIMUM GAGE HEIGHT, 1984-85

DATE	TIME	G.H.
December 1	0045	26.80

REMARKS:

Station located on west levee, 3.7 miles southeast of Knights Landing.

Period of record for discharge is not available.

Period of record for gage height is 1915 to February 8, 1984 and October 1, 1986 to date.

Mean daily discharge and peak discharge records, for this station, for the 1984-85 water year are available in the discharge section of this publication.

The datum for this station from 1915 to present is 0.00, USED

FOR PERIOD OF RECORD BEGINNING 1915:

INSTANTANEOUS MAXIMUM	GAGE HEIGHT	DATE	TIME
	Not available.		

E = Estimated. NR = No Record.

TABLE B-2 (continued)
DAILY MEAN STAGE
(in feet)

STATION NUMBER: G31139 EAGLE LAKE NEAR SPAULDING

LOCATION: LAT 40-39-02, LONG 120-47-20, T32N, R10E, SEC. 1, MD B&M

LASSEN COUNTY

DRAINAGE AREA: Not available

HYDROLOGIC AREA: G-08.C1

WATER DAY	YEAR OCT	OCTOBER NOV	1984 through DEC	SEPTEMBER JAN	1985 FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1	11.94	11.81	12.08	12.10	12.20		NR	12.67	12.32	11.92	11.45	10.92	1
2	11.93	11.86	12.08	12.10	12.21		NR	12.66	12.32	11.91	11.44	10.92	2
3	11.93	11.87	12.08	12.10	12.21		NR	12.64	12.32	11.90	11.43	10.92	3
4	11.93	11.87	12.09	12.10	12.21		NR	12.63	12.31	11.89	11.42	10.91	4
5	11.92	11.87	12.08	12.10	12.22		NR	12.63	12.30	11.88	11.40	10.89	5
6	11.91	11.89	12.08	12.11	12.22		NR	12.62	12.30	11.86	11.39	10.89	6
7	11.91	11.90	12.07	12.11	12.24		NR	12.60	12.28	11.85	11.36	10.88	7
8	11.90	11.92	12.08	12.12	12.34	N	NR	12.59	12.27	11.83	11.33	10.93	8
9	11.89	11.92	12.08	12.12	12.35		NR	12.58	12.26	11.82	11.32	10.95	9
10	11.88	11.91	12.09	12.12	12.34	O	NR	12.56	12.26	11.80	11.29	10.94	10
11	11.89	11.93	12.09	12.12	12.34		NR	12.55	12.25	11.79	11.28	10.93	11
12	11.89	11.94	12.07	12.12	12.34		NR	12.54	12.25	11.77	11.26	10.92	12
13	11.86	11.94	12.08	12.12	12.34		NR	12.54	12.23	11.76	11.25	10.91	13
14	11.85	11.94	12.08	12.13	12.34		NR	12.52	12.22	11.75	11.24	10.89	14
15	11.84	11.95	12.09	12.13	12.35	R	NR	12.52	12.22	11.73	11.23	10.88	15
16	11.85	11.94	12.11	12.13	12.35	E	NR	12.50	12.21	11.71	11.23	10.88	16
17	11.86	11.94	12.12	12.13	12.35		NR	12.49	12.20	11.68	11.21	10.86	17
18	11.86	11.95	12.11	12.13	12.35	C	NR	12.49	12.21	11.66	11.19	10.86	18
19	11.87	11.94	12.10	12.14	NR		NR	12.48	12.18	11.64	11.17	10.84	19
20	11.86	11.95	12.10	12.14	NR	O	NR	12.47	12.17	11.63	11.15	10.84	20
21	11.86	11.97	12.10	12.14	NR	R	NR	12.47	12.16	11.62	11.13	10.83	21
22	11.85	11.97	12.10	12.14	NR		NR	12.46	12.14	11.61	11.11	10.83	22
23	11.85	11.97	12.10	12.14	NR	D	NR	12.46	12.12	11.60	11.11	10.82	23
24	11.85	12.00	12.10	12.14	NR		NR	12.45	12.07	11.59	11.10	10.82	24
25	11.84	12.01	12.10	12.15	NR		NR	12.44	12.05	11.58	11.09	10.82	25
26	11.83	12.01	12.10	12.16	NR		12.68	12.43	12.03	11.57	11.07	10.81	26
27	11.83	12.04	12.11	12.17	NR		12.68	12.41	12.01	11.56	11.04	10.81	27
28	11.83	12.08	12.11	12.17	NR		12.68	12.38	12.00	11.55	11.02	10.80	28
29	11.82	12.08	12.11	12.18			12.67	12.36	11.96	11.53	10.99	10.79	29
30	11.81	12.08	12.10	12.18			12.67	12.36	11.93	11.51	10.97	10.79	30
31	11.81		12.10	12.18				12.34		11.47	10.95		31

INSTANTANEOUS MAXIMUM GAGE HEIGHT, 1984-85

DATE TIME G.H.

NR

REMARKS:

Station located in Pine Creek outlet on west shore at Eagle Lake about 19 miles north-west of Susanville. Prior to October 1, 1976 station was located on east shore at tunnel entrance (as G32100, Eagle Lake near Susanville).

Stage affected by moderate to high winds at times.

The datum for this station from 1956 to present is 5095.06, USCGS.

FOR PERIOD OF RECORD BEGINNING 1976:

INSTANTANEOUS MAXIMUM	GAGE HEIGHT	DATE	TIME
	13.98	April 25, 1984	1600

E = Estimated. NR = No Record.

APPENDIX C

SURFACE WATER QUALITY

APPENDIX C

SURFACE WATER QUALITY

Appendix C presents the results of chemical analyses of surface water samples collected in Northeastern California from October 1, 1984 to September 30, 1985. The data are presented in six categories:

Table	Title
C-1	Mineral Analyses of Surface Water
C-2	Minor Element Analyses of Surface Water
C-3	Miscellaneous Analyses of Surface Water
C-4	Nutrient Analyses of Surface Water
C-5	Pesticide Analyses of Surface Water
C-6	Supplemental Minor Element Analyses of Surface Water

To facilitate use of the surface water quality tables, a sampling station index is provided on pages 122 through 124. This index lists the stations in the tables and gives location data for each. The space for station names is restricted to a combination of 25 letters and/or numerals; therefore, some abbreviations are necessary. Pertinent abbreviations are:

A	- at	MO	- mouth
AB	- above	N	- north
AGRI	- agricultural	NE	- northeast
BAS	- basin	NF	- north fork
BL	- below	NO	- number
BP	- bypass	NR	- near
BR	- bridge	PL	- pipeline
C or CR	- creek	PLT	- plant
CA	- canal	PP	- power plant
CN	- canyon	PUPL	- pumping plant
DIV	- diversion	R	- river
DM	- dam	R-D	- reclamation district
DR	- drain	RD	- road
DWR	- Department of Water Resources	RES	- reservoir
E	- east	S	- south
EF	- east fork	SF	- south fork
F	- fork	SI	- side
FY	- ferry	SL or SLU	- slough
HWY	- highway	SO	- southern
IS	- island	STP	- sewage treatment plant
JCT	- junction	T	- tract
L	- little	TRIB	- tributary
LNDG	- landing	UP	- upper
LK	- lake	VLV	- valley
LO	- lower	W	- west
M	- middle	WT	- water
MF	- middle fork	XING	- crossing

The number of pages referenced in the "analyses" column of the index indicates the extent of analyses for each station. Locations of the stations are shown on Figure 5, pages 126 through 132.

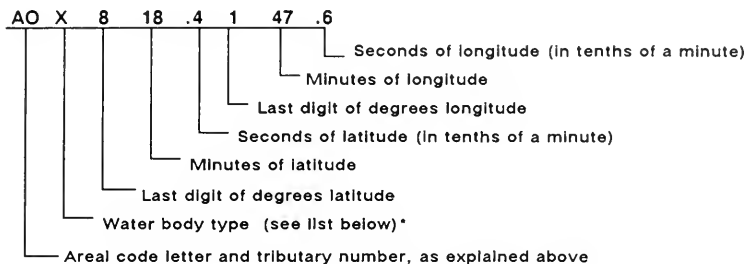
Surface water quality stations are listed in the tables by ascending station number. The station number appears on the left, the station name in the center, and the areal code on the right. The areal code is described on page 2.

Surface water quality stations are named after the stream and a nearby landmark or post office. An example is the station "Ulatis Creek at Brown Road." If a sampling station is situated at the site of a surface water measurement station, each uses the same name.

The first character of a surface water quality station number designates the basin in which the station is located and is one of the areal code letters shown in Figure 1. The second character, a numeral, designates a specific tributary area within that major basin. These two characters, therefore, indicate the general location of the station. In this appendix, data are reported for the basins and tributaries listed below:

BASIN		TRIBUTARY	
Ltr	Name	No.	Name
A	SACRAMENTO RIVER	0	Sacramento Valley Floor
		1	Pit River
		2	Shasta Lake
		3	Sacramento Valley Westside
		4	Sacramento Valley Northeast
		5	Feather River
		6	Yuba—Bear Rivers
		7	American River
		8	Cache Creek
B	SAN JOAQUIN RIVER	9	Putah Creek
		0	San Joaquin Valley Floor
		1	Cosumnes River
		2	Mokelumne—Calaveras River
		8	San Joaquin Valley Westside
G	NORTH LAHONTAN	9	Sacramento—San Joaquin
		3	Eagle Lake
		4	Susan River
		6	Herlong
		7	Truckee River
		8	Carson River
		9	Walker River

Surface water quality stations located on broad bodies of water have elements of latitude and longitude included in the station number to assist in location. The station "Ulatis Creek at Brown Road" is an example:



* Water Body Types

- C - canal
- D - river delta
- L - lake
- R - reservoir
- V - agricultural drain
- X - channel with two-directional flow

In order to increase the amount of information presented in the water quality tables, some columns have multiple headings and data are tabulated respectively. For example, the first column of Table C-1 shows the date of sample collection printed above the time of sampling so the data are tabulated in that order. If a part of the values for a multiple heading column are obtained, they will appear in the column with respect to the heading positions. If dashes (or no data) appear in a column, it means no data was obtained.

At the time of sampling, dissolved oxygen, pH, temperature, specific conductance and gage height are determined.

Abbreviations and codes used in each table are explained at the beginning of each table.

SAMPLING STATION INDEX, Northeastern California

Station	Station Number	Location		Areal Code	Beginning of Record	Analyses on Page(s)	Map Page
		Lat.	Long.				
AG-DR W-ED EMPIRE T S-SIATHERTON	B9 V 803.6 129.9	38-03-37	121-29-52	B-01.00	2/85	168,176,182,198	131
AGRI-DR GRAND IS NR WALKER LNDG	B9 V 813.2 135.7	38-13-10	121-35-42	A-01.00	2/85	168,176,182,198	130
AGRI-DR TYLER IS BY VORMANS LNDG	B9 V 807.9 134.7	38-07-53	121-34-44	A-01.00	3/85	168,176,198	130
ALDER C A GLENBROOK	A8 5710.00	38-51-06	122-45-24	A-04.D4	10/79	160,174,192	130
AMERICAN R A SACTO WT PLT	A0 7140.10	38-33-35	121-24-57	A-05.B1	10/68	148,179,186,197	131
AMERICAN R A 16TH ST BR	A0 7125.01	38-35-47	121-28-33	A-05.B1	2/54	148,179,186	131
AMERICAN R BL NE STP BL PL	A0 7149.01	38-34-48	121-20-27	A-05.B1	7/78	148,179,186	131
AMERICAN R BL NIBUS DM	A0 7180.00	38-38-08	121-13-36	A-05.B1	2/56	148,179,186	131
AMERICAN R SF NR KYBURZ	A7 4550.00	38-45-49	120-19-39	A-06.B5	6/56	155	131
ANTELOPE C NR MO NR RED BLUFF	A0 4020.50	40-06-30	122-06-35	A-13.B0	7/55	145	128
ANTELOPE LK NR DM	AN 0010.00	40-10-47	120-36-20	A-11.E4	5/75	135,179,185	129
BARKER SLU NR DOZIER	A0 9220.00	38-17-03	121-49-22	A-02.A0	12/51	148,173	130
BATTLE CR NR COTTONWOOD	A4 7110.00	40-23-54	122-08-08	A-17.A0	1/55	154	128
BEAR C NR RUMSEY	A8 1250.00	38-56-43	122-20-43	A-04.B0	12/68	157,190	130
BEAR R NR WHEATLAND	A0 6550.00	39-00-01	121-24-20	A-08.A0	5/51	147,179,186	131
BOTTLE ROCK PWR PLANT NR GLENBROOK	A8 5610.00	38-50-06	122-45-34	A-04.D4	7/85	159,174,192	130
BUTTE C NR CHICO	A4 1110.00	39-43-34	121-42-28	A-07.D0	3/52	154	128
BUTTE SLU NR MERIDIAN	A0 2972.00	39-10-28	121-54-08	A-07.C0	2/71	141,185	128
CACHE C NR LOWER LK	A8 1350.00	38-55-29	122-33-53	A-04.D1	11/51	157	130
CACHE C A RUMSEY	A8 1135.00	38-53-24	122-14-14	A-02.C0	5/58	156	130
CACHE C NF NR LOWER LAKE	A8 2050.00	39-01-09	122-34-03	A-04.C0	12/51	158,190	128
CACHE SLU A VALLEJO PL PL	B9 D 817.8 144.8	38-17-49	121-44-50	A-01.00	5/49	165,175,181,197	130
CALAVARES R NR JENNY I LND	B0 2590.00	38-05-22	120-51-53	B-03.C0	3/49	160,180,192	131
CALHOUN CFT TRIB HWY 113-CRFD RD	B9 D 814.5 148.2	38-14-32	121-48-15	A-01.00	11/84	164	130
CARSON R FFA HWY 4	G8 3420.20	38-41-20	119-45-44	G-03.A0	9/58	171,182,194	132
CARSON R W F A WOODFORDS	G8 2300.00	38-46-10	119-50-00	G-04.B0	8/58	171	132
CHICO C BIG NR CHICO	A4 2111.00	39-46-34	121-45-05	A-13.B0	7/52	154	128
CLEAR C NR IGO	A3 6130.00	40-30-48	122-31-23	A-17.A0	4/58	154	126
CLEAR LK A LAKEPORT	A8 1 902.7 254.7 1	39-02-42	122-54-43	A-04.D2	4/51	156,190	128
CLEAR LAKE LO ARM CL-3	A8 1 857.9 240.6	38-57-52	122-40-40	A-04.D2	4/77	155,173,188,201	130
CLEAR LK 15-UP ARM CL-1	A8 1 903.8 251.9	39-03-48	122-51-54	A-04.D2	6/64	156,173,190,201	128
CLEAR LK 23 OAKS ARM CL-4	A8 1 900.7 241.7	39-00-42	122-41-42	A-04.D2	6/64	155,173,189,201	128
COLUSA BAS DR A HWY 20	A0 2976.00	39-11-45	122-03-34	A-07.B1	7/52	142	128
COLUSA BAS DR NR KNIGHTS LDG	A0 2947.10	38-48-45	121-46-25	A-07.B1	6/57	140,185	130
CONTRA COSTA CA A ROCK SLU	B9 D 758.6 138.4	37-58-35	121-38-24	B-01.00	10/75	163	130
CONTRA COSTA-EAST ID PUMPING PL-1	B9 D 755.1 137.4	37-55-05	121-37-22	B-01.00	5/82	162	130
COSUMNES R A DILLARD RD	B0 1175.01	38-29-28	121-09-37	B-03.A2	8/83	160,180,197	131
COSUMNES R A MICHIGAN BAR	B1 1150.00	38-30-01	121-02-40	B-04.A1	7/52	161,180,193	131
COSUMNES R MF NR SOMERSET	B1 3150.00	38-37-29	120-42-02	B-04.A4	10/67	161	131
COSUMNES R NF NR EL DORADO	B1 2100.00	38-35-20	120-50-38	B-04.A3	10/57	161	131
COSUMNES R SF A R PINES	B1 4110.01	38-32-48	120-44-10	B-04.A4	10/67	161	131
COTTONWOOD C A COTTONWOOD	A0 3520.50	40-22-35	122-16-53	A-17.B0	4/51	143	128
COTTONWOOD C ME NR GAS PT	A0 3581.00	40-23-06	122-31-45	A-17.B0	5/74	144	128
COTTONWOOD C NF NR IGO	A0 3545.00	40-26-30	122-32-58	A-17.B0	12/64	144	128
COTTONWOOD C SF NR COTTONWOOD	A0 3595.00	40-19-00	122-26-54	A-17.B0	9/58	144	128
COW C NR PALO CEDRO	A4 8111.00	40-31-56	122-14-15	A-17.A0	9/74	154	126
DEER C A HWY 99E	A0 4321.01	39-56-48	122-03-09	A-13.B0	5/71	144	128
DELTA MENDOTA CA A LINDEMAN RD	B9 C 749.0 133.6	37-48-58	121-33-36	B-01.00	9/83	161,174,180,197	130
DWR-BP 01 N-END, DIERSSEN-FARM RD	B9 R 818.4 129.3	38-18-22	121-29-18	A-01.00	10/78	167	131
DWR-BP 02 S-END, FARM RD	B9 R 817.0 128.3	38-17-03	121-28-17	A-01.00	7/78	167	131
DWR-BP 03 S-END, TWIN CITIES RD	B9 R 816.7 128.0	38-16-44	121-27-58	A-01.00	3/78	167	131
DWR-BP 04 N-END, TWIN CITIES RD	B9 R 816.6 127.9	38-16-38	121-27-55	A-01.00	7/78	167	131
DWR-BP 05 N-END, WALNUT GROVE RD	B9 R 813.5 127.2	38-13-29	121-27-13	B-01.00	10/79	167	131
DWR-BP 06 S-END, WOODBRIDGE RD	B9 R 809.6 125.9	38-09-36	121-25-52	B-01.00	4/78	167	131
DWR-BP 07 S-END, SARGENT RD, FARM	B9 R 807.7 124.7	38-07-42	121-24-40	B-01.00	10/77	167	131
DWR-BP 08 N-END, SARGENT RD, FARM	B9 R 807.5 124.7	38-07-32	121-24-42	B-01.00	1/79	166	131
DWR-BP 09 S-END, KINGDON RD, FARM	B9 R 806.5 124.4	38-06-27	121-24-23	B-01.00	10/76	166	131
DWR-BP 10 N-END, KINGDON RD, FARM	B9 R 806.4 124.4	38-06-24	121-24-23	B-01.00	1/77	166	131
DWR-BP 11 N-END, TREADWAY RD, FARM	B9 R 805.8 124.1	38-05-50	121-24-08	B-01.00	10/76	166	131

SAMPLING STATION INDEX (Continued)

Northeastern California

Station	Station Number	Location		Areal Code	Beginning of Record	Analyses on Page(s)	Map Page
		Lat.	Long.				
DWR-BP 12 MID-WAY NO OF WHITE SLOUGH	B9 R 805.4 123.9	38-05-26	121-24-55	B-01.00	10/79	166	131
DWR-BP 13 MID-WAY, SO OF WHITE SL	B9 R 804.8 123.6	38-04-47	121-23-37	B-01.00	10/78	166	131
EAGLE LK STA NO 1A	G3 L 033.4 048.4	40-33-23	120-48-22	G-08.C2	4/71	168,193	127
EAGLE LK STA NO 2A	G3 L 035.5 046.8	40-35-30	120-46-47	G-08.C2	4/71	168,193	127
EAGLE LK STA NO 4A	G3 L 040.4 046.0	40-40-21	120-45-57	G-08.C2	4/71	169,176,193	127
EAGLE LAKE STA 7A	G3 L 041.9 041.2	40-41-54	120-41-11	G-08.C2	4/71	169,176,193	127
EAGLE LK STA NO 9A	G3 L 038.6 044.1	40-38-37	120-44-04	G-08.C2	4/71	169,193	127
EAGLE LAKE STATION NO 10A	G3 L 036.9 044.7	40-36-54	120-44-39	G-08.C2	8/62	168,176,193	127
EAGLE LK STA NO 11	G3 L 035.2 045.1	40-35-11	120-45-05	G-08.C2	8/62	168,176,193	127
ELDER C A GERBER	A0 3320.00	40-03-04	122-09-55	A-13.B0	1/59	142	128
ELDER C NR PASKENTA	A3 3110.00	40-01-28	122-30-38	A-16.B1	10/58	154	128
FEATHER R A NICOLAUS	A0 5103.00	38-54-01	121-35-00	A-05.B2	3/49	145,179,185	130
FEATHER R MF NR PORTOLA	A5 5420.00	39-49-17	120-26-17	A-11.C2	5/71	155	129
GRINDSTONE C NR ELK C	A3 1302.00	39-40-38	122-31-50	A-14.B1	5/66	153,188	128
HIGH VALLEY C AB KELSEY C	AB 5610.00	38-52-07	122-47-36	A-04.D4	3/78	158,173,191	130
HONEY LK NR BUNTINGVILLE	G4 L 016.5 027.1	40-16-30	120-27-06	G-08.B0	3/73	169	129
HONKER CUT A ATHERTON RD BR	B9 D 803.6 127.5	38-03-34	121-27-30	A-01.00	6/59	163,181	131
IRON CANYON RES	A1 R 102.8 159.1	41-02-46	121-59-08	A-23.A3	5/76	149,187	126
KELSEY C A GLENBROOK	AB 5701.00	38-51-07	122-45-23	A-04.D4	3/78	159,174,192	130
KELSEY C AB HIGH VALLEY C	AB 5601.00	38-52-08	122-47-35	A-04.D4	3/78	158,173,190	130
KELSEY C NR KELSEYVILLE	AB 1500.00	38-55-42	122-50-36	A-04.D4	3/80	157,173,190	130
LINDSAY SLU A HASTINGS CUT	B9 D 815.8 146.2	38-15-47	121-46-12	A-01.00	11/80	165,175,181,197	130
LITTLE CONNECTION EMPIRE ATHERTON	B9 D 803.6 130.0	38-03-36	121-29-58	B-01.00	2/85	164,181,197	131
LK BRITTON A FY KING	A1 L 101.3 139.9	41-01-18	121-39-54	A-23.B1	5/73	149,186	126
LK SISKIYOU NR MT SHASTA	A2 L 116.8 219.7	41-16-46	122-19-43	A-21.B2	7/73	150,187	126
LONG VLY C AB DOYLE	G6 1200.00	39-55-50	120-01-10	G-08.A0	7/54	170	129
LONG VLY CR NR HALL LELUJAJ CT	G6 1705.00	39-46-55	120-04-14	G-08.A0	3/71	170	129
MALLARD SL AT PUMPING PLANT	B8 X 802.2 155.6	38-02-09	121-55-37	E-07.C1	9/83	161,174	130
MC CLOUD RES A DM	A2 R 107.9 204.2	41-07-53	122-04-12	A-22.A3	8/73	150,188	126
MC CLOUD R AB SHASTA LK	A2 2150.00	40-57-30	122-13-09	A-22.A1	4/51	152,188	126
MERRILL C A EAGLE LK NR SUSANVILLE	G3 2510.00	40-32-54	120-43-26	G-08.C1	4/72	169,176,194	127
MERRILL C BL LITTLE MERRILL FLAT	G3 2515.00	40-32-04	120-49-26	G-08.C1	6/75	169,176,194	127
MIDDLE R A BORDEN HWY	B9 D 753.5 129.3	37-53-28	121-29-20	B-01.00	11/61	162,174,180,197	130
MIDDLE RIVER A MOKELUMNE AQUEDUCT	B9 D 756.2 131.7	37-56-13	121-31-44	B-01.00	4/77	162	131
MILL C NR MO NR LOS MOLINOS	AB 4420.50	40-02-35	122-05-57	A-13.B0	9/52	144,185	128
MINER SLU A RYDE ISL SCH HWY	B9 D 814.6 139.5	38-14-36	121-39-32	A-01.00	8/60	164,175,181	130
MOKELUMNE R A LOWER SACTO RD	B0 2105.20	38-09-27	121-17-49	B-03.B0	8/83	160,180,197	131
MOKELUMNE R NORTH BL SNODGRASS SL	B9 D 813.4 130.3	38-13-23	121-30-20	B-01.00	6/82	164	131
MOKELUMNE R NR MOKELUMNE HILL	B2 1375.00	38-18-46	120-43-09	B-04.C0	10/52	161	131
OLD R A TRACY RD BR	B9 D 748.3 126.9	37-48-17	121-26-55	B-01.00	2/68	161	131
OLD R NR ROCK SLU AB RANCHO DEL RIO	B9 D 758.1 134.3	37-58-10	121-34-15	B-01.00	5/72	163	130
PAPOOSE C NR SUSANVILLE	G3 2505.00	40-33-15	120-45-31	G-08.D0	10/72	169,176,194	127
PAYNES C NR RED BLUFF	A4 6050.01	40-18-54	122-04-12	A-17.A0	10/58	154	128
PINE C A EAGLE LK NR SUSANVILLE	G3 3140.00	40-39-54	120-47-25	G-08.C1	1/74	169,176,194	127
PIPER SLU A BETHEL TRACT	B9 D 802.0 137.2	38-02-03	121-37-14	B-01.00	5/77	163	130
PIT R NR CANBY	A1 1680.00	41-24-23	120-55-38	A-23.D4	4/51	149	127
PIT R NR MONTGOMERY C	A1 1020.00	40-50-54	121-59-24	A-20.B0	4/51	149,180,187	126
PIT R SF NR LIKELY	A1 4400.00	41-13-51	120-26-10	A-23.E2	8/58	149,187	127
PUTAH C NR WINTERS	A9 1250.00	38-30-55	122-04-50	A-02.B0	12/51	160	130
R-D 70 DR TO SACRAMENTO R	A0 2965.00	39-04-08	121-51-43	A-07.A0	8/59	141,185	128
R-D 108 DR TO SACRAMENTO R	A0 2933.00	38-51-48	121-47-30	A-07.A0	8/59	139	130
R-D 787 DRAINAGE TO COLUSA BAS DRAIN	A0 2950.00	38-48-06	121-43-30	A-07.A0	6/57	140	130
R-D 787 DRAINAGE TO SACRAMENTO R	A0 2955.00	38-50-48	121-43-48	A-07.A0	5/60	141,185	130
R-D 1500 DR SLU TO SAC SLU NR KARNAK	A0 2926.00	38-47-06	121-39-18	A-07.A0	2/52	138	130
RED BANK C NR RED BLUFF	A0 3460.00	40-05-24	122-24-45	A-13.B0	1/59	143	128
ROCK SL A OLD RIVER	B9 D 758.4 134.8	37-58-22	121-34-50	B-01.00	9/83	163,174,180,197	130
RUBICON R A ELLICOTT RD	A7 5250.10	38-57-37	120-28-54	A-06.C3	10/69	155,180,188	131
SACRAMENTO R A BEND BR	A0 2785.00	40-15-50	122-13-19	A-17.A0	4/55	138,100,185	128
SACRAMENTO R A BUTTE CITY	A0 2500.00	39-27-28	121-59-35	A-07.D0	4/55	137	128

SAMPLING STATION INDEX (Continued)

Northeastern California

Station	Station Number	Location		Areal Code	Beginning of Record	Analyses on Page(s)	Map Page
		Lat.	Long.				
SACRAMENTO R A COLUSA	A0 2420.00	39-12-52	121-59-57	A-07.A0	7/55	136	128
SACRAMENTO R A DELTA	A2 1300.00	40-56-21	122-24-58	A-20.B0	4/51	151,188	126
SACRAMENTO R A FREEMONT WEIR W END	A0 2170.00	38-45-34	121-39-59	A-02.B0	6/65	135,185	130
SACRAMENTO R A GREENS L DG	B9 D 820.7 132.7	38-20-45	121-32-42	A-01.00	7/62	166,175,182,197	130
SACRAMENTO R A HAMILTON CITY	A0 2630.00	39-45-06	121-59-40	A-13.H0	4/51	137,185	128
SACRAMENTO R A KESWICK	A2 1010.00	40-36-04	122-26-35	A-19.C0	4/51	151	126
SACRAMENTO R A WALNUT GROVE	B9 D 814.4 131.0	38-14-22	121-30-57	A-01.00	12/60	164	130
SACRAMENTO R AB COLUSA BAS DR	A0 2230.02	38-48-30	121-43-20	A-07.A0	7/60	136,185	130
SACRAMENTO R BL KNIGHTS LANDING	A0 2195.01	38-45-38	121-40-40	A-07.C0	7/60	135	130
SACRAMENTO R BL RED BLUFF DIV DM	A0 2755.00	40-08-43	127-08-58	A-13.B0	12/77	137	128
SAN JOAQUIN R A BLIND POINT	B9 D 801.9 143.2	38-01-57	121-43-09	B-01.00	9/63	163	130
SAN JOAQUIN R A BRANDT BR	B9 D 751.9 119.3	37-51-53	121-19-19	B-01.00	3/57	162	131
SAN JOAQUIN R A RYERLANDS	B0 7020.00	37-40-34	121-15-51	B-01.00	4/51	160,174,180,197	131
SAWTELLE DRAIN AT CLARK ROAD	A0 X 821.5 151.5	38-21-31	121-51-32	A-02.A0	7/84	135	130
SHASTA LK A DAM	A2 L 043.2 225.0	40-43-12	122-25-00	A-20.A0	8/73	149,187	126
SHASTA LK A LITTLE SQUAW C INLET	A2 L 044.3 227.3	40-44-17	122-27-18	A-20.A0	5/83	149,187	126
SHASTA LK LITTLE BACKBONE C INLET	A2 L 045.4 225.5	40-45-25	122-25-30	A-20.A0	5/83	150,187	126
SHASTA LK MC CLOUD R ARM	A2 L 048.4 217.6	40-48-22	122-17-33	A-24.A4	10/78	150,187	126
SHASTA LK PIT R AB JONES VALLEY	A2 L 044.9 212.1	40-44-52	122-12-04	A-20.A0	5/83	150,187	126
SHASTA LK SACRAMENTO R ARM	A2 L 048.5 222.8	40-48-30	122-22-49	A-24.A0	10/78	150,187	126
SHASTA LK SQUAW C BL ZINC C	A2 L 046.4 212.9	40-46-26	122-12-54	A-20.A0	5/83	150,187	126
SQUAW C AB SHASTA LK	A2 4100.00	40-51-24	122-07-08	A-22.B0	7/55	152,188	126
SQUAW C LA SHASTA LK	A2 0130.00	40-44-25	122-28-03	A-20.H0	6/52	150,173	126
STEAMBOAT SLU BL SUTTER SLU	B9 D 815.0 136.0	38-14-57	121-36-02	A-01.00	7/82	164	130
STONY C AB GRINDSTONE C	A3 1253.00	39-40-13	122-31-26	A-14.B1	5/79	153,173,188	128
STONY C BL BLACK BUTTE DM NR ORLAND	A3 1110.00	39-49-07	122-19-26	A-13.A0	1/58	152,173,188	128
SUSAN R A LASSEN ST BR	G4 1600.01	40-24-50	120-39-52	G-08.B0	4/51	170	129
SUSAN R NR LITCHFIELD	G4 1590.01	40-22-40	120-23-40	G-08.B0	11/68	169	129
SUTTER BP A R-D 1500 PP A KARNAK	A0 2927.00	38-47-06	121-39-12	A-07.A0	6/51	139,185	130
SUTTER BP STATE PP NO 1 NR NICOLAUS	A0 5910.00	38-56-00	121-38-06	A-07.C0	3/49	145,186	130
SUTTER BP STATE PP NO 2 NR TISDALE	A0 5920.00	39-01-36	121-43-30	A-07.C0	1/59	146,186	128
SUTTER BP STATE PP NO 3 NR YUBA CITY	A0 5925.00	39-07-14	121-46-41	A-07.C0	2/75	146	128
TEHAMA COLUSA CANAL NR RED BLUFF	A0 2759.00	40-08-45	122-11-47	A-13.B0	10/76	138,185	128
THOMES C A PASKENTA	A0 3500.00	39-53-16	122-31-41	A-13.B0	10/58	143,185	128
THOMES C A RICHFIELD	A0 3220.01	39-58-45	122-10-35	A-13.B0	1/59	142	128
TRUCKEE R A TAOHE CITY	G7 1665.00	39-09-59	120-08-37	G-06.B0	5/71	170,182,194	131
ULATIS CR AT BROWN RD	A0 X 818.4 147.6	38-18-25	121-47-35	A-02.A0	6/84	135,173	130
ULATIS CR AT HAWKINS RD	A0 X 821.5 150.8	38-21-31	121-50-50	A-02.A0	6/84	135,173	130
WADSWORTH CA NR SUTTER LO STA	A0 5927.00	39-07-43	121-45-12	A-07.C0	9/75	147,186	128
WALKER R E NR BRIDGEPORT	G9 3200.00	38-19-40	119-12-49	G-01.A0	8/58	171,182,194	132
WALKER R W BL LITTLE WALKER R	G9 2460.00	38-22-48	119-27-00	G-02.D0	8/58	171	132
WHISKYTOWN RES A DAM	A3 R 036.1 232.4	40-36-04	122-32-22	A-19.B3	5/63	152,188	126
WILLOW CA RD A-27 NR LICHFIELD	G4 2001.00	40-24-00	120-27-03	G-08.B0	5/65	170	129
YUBA R NR MARYSVILLE	A0 6150.00	39-10-35	121-31-25	A-08.C0	2/70	147,179,186	128
YUBA R (SOUTH) NR CISCO	A6 4700.00	39-19-12	120-33-38	A-10.C4	10/67	155	129

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LEGEND



SURFACE WATER QUALITY
MEASUREMENT STATIONS

MAJOR BASIN and
TRIBUTARY AREA

MAJOR BASIN BOUNDARY

BOUNDARY of TRIBUTARY
AREA



KEY TO SHEETS

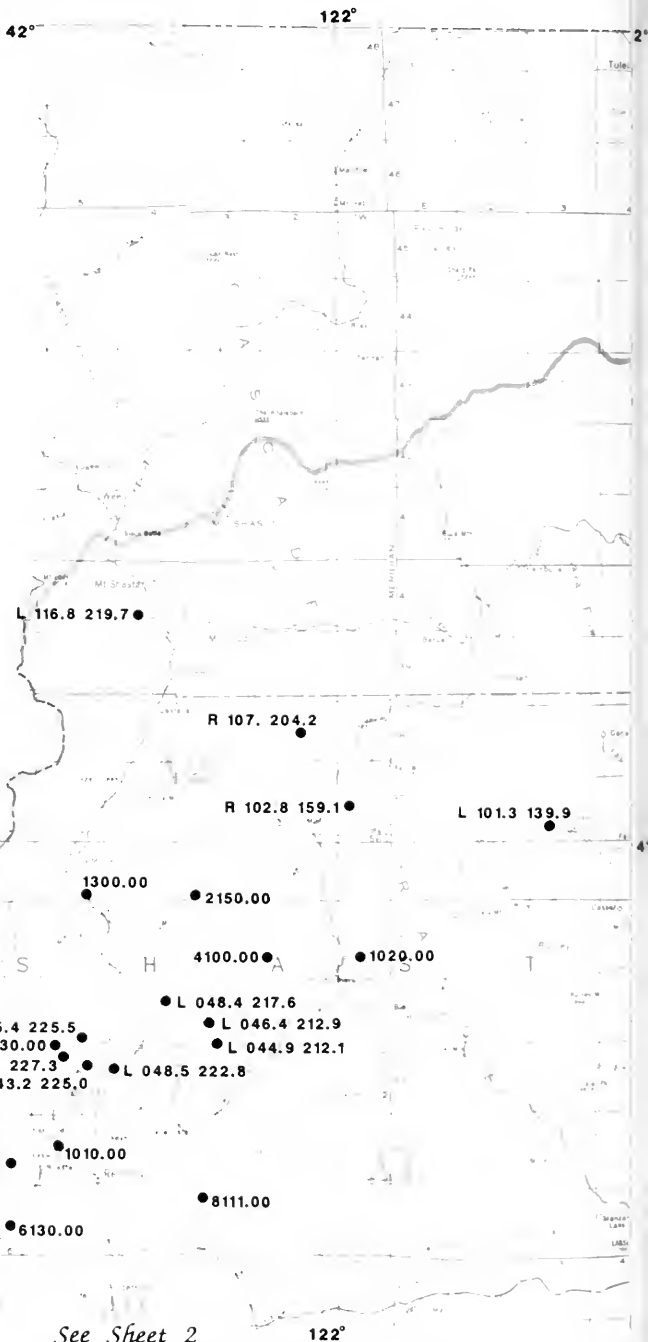


Scale in Miles

123°



41°



See Sheet 2

122°

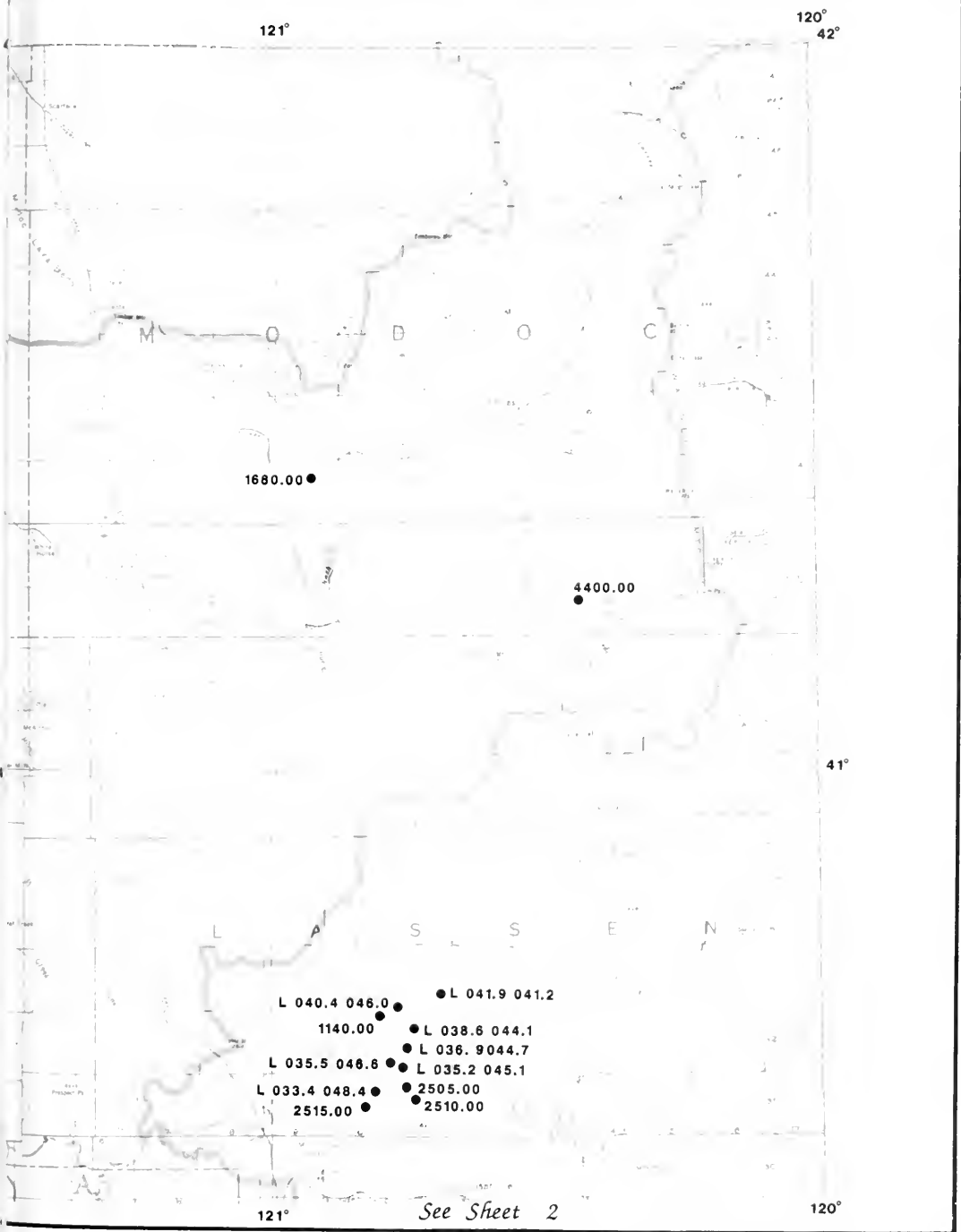
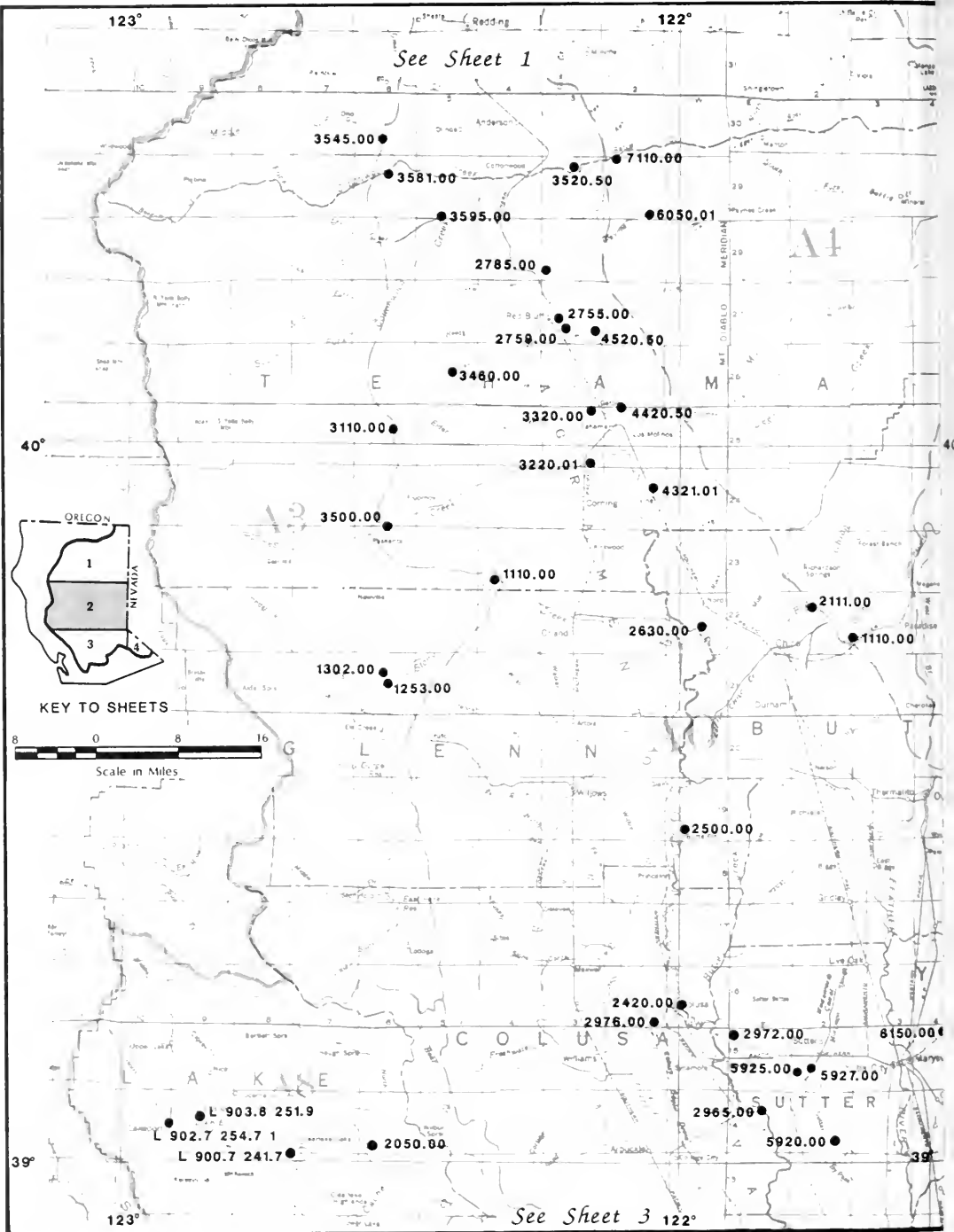


Figure 5. LOCATION OF SURFACE WATER QUALITY STATIONS



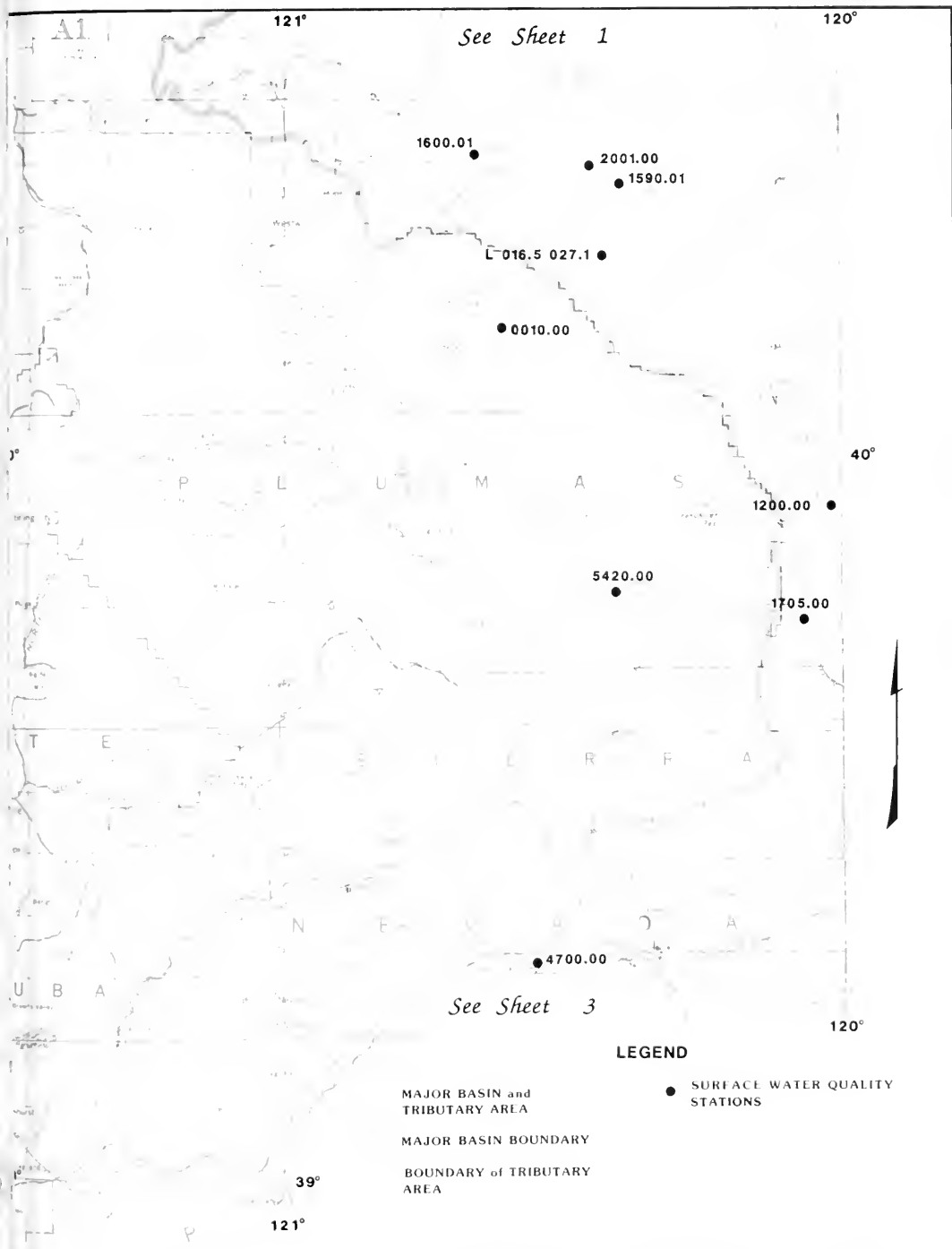
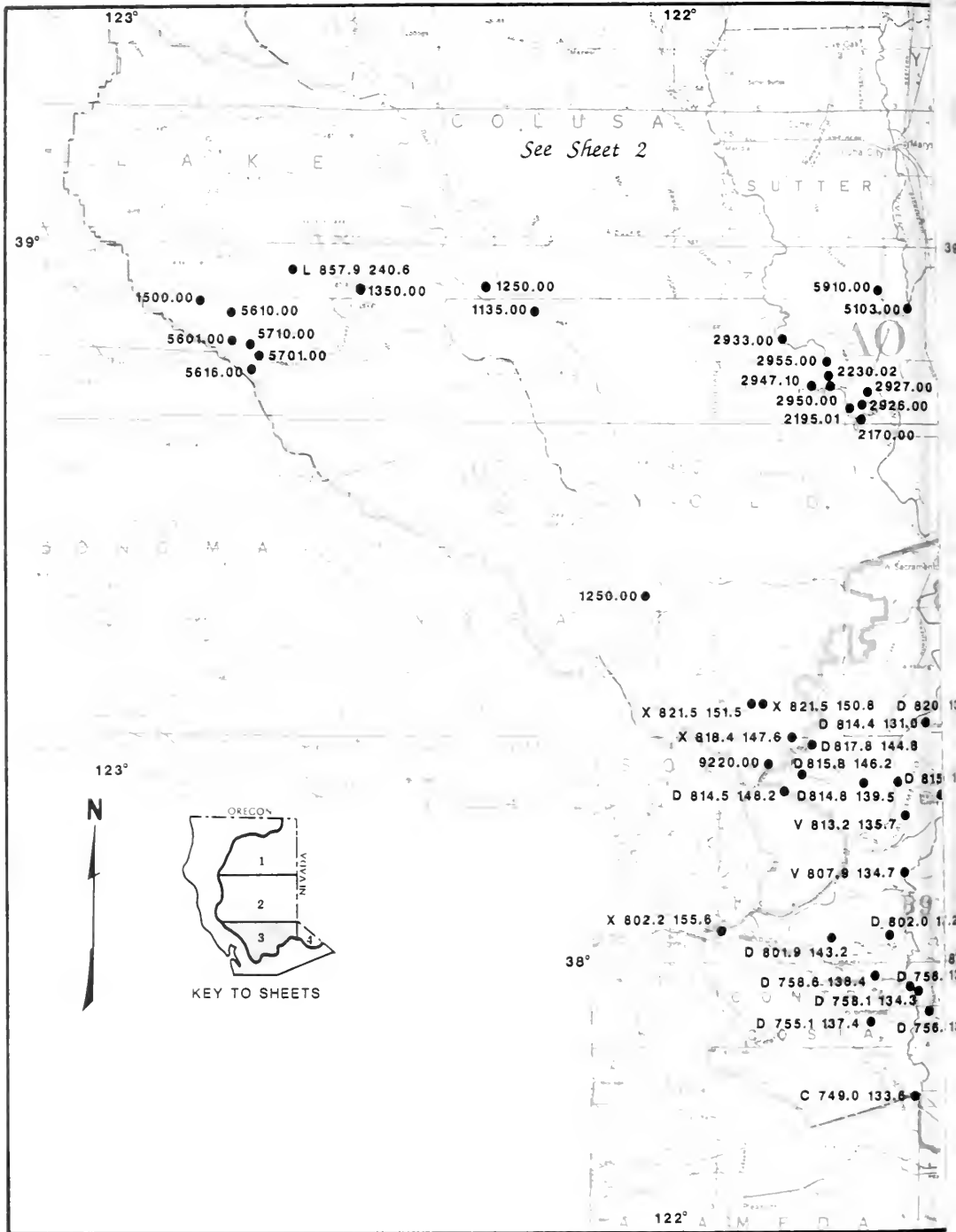


Figure 5. LOCATION OF SURFACE WATER QUALITY STATIONS



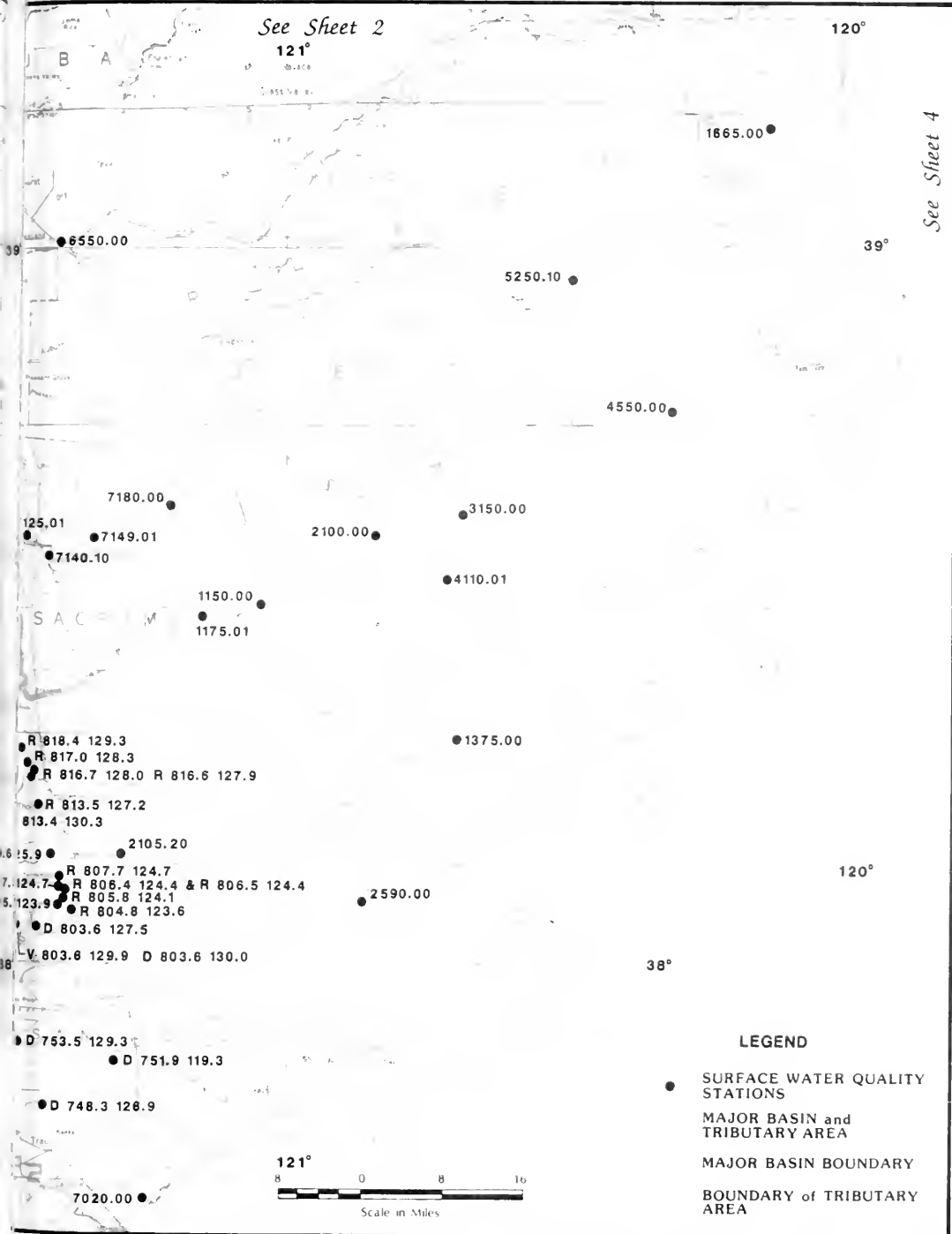


Figure 5. LOCATION OF SURFACE WATER QUALITY STATIONS

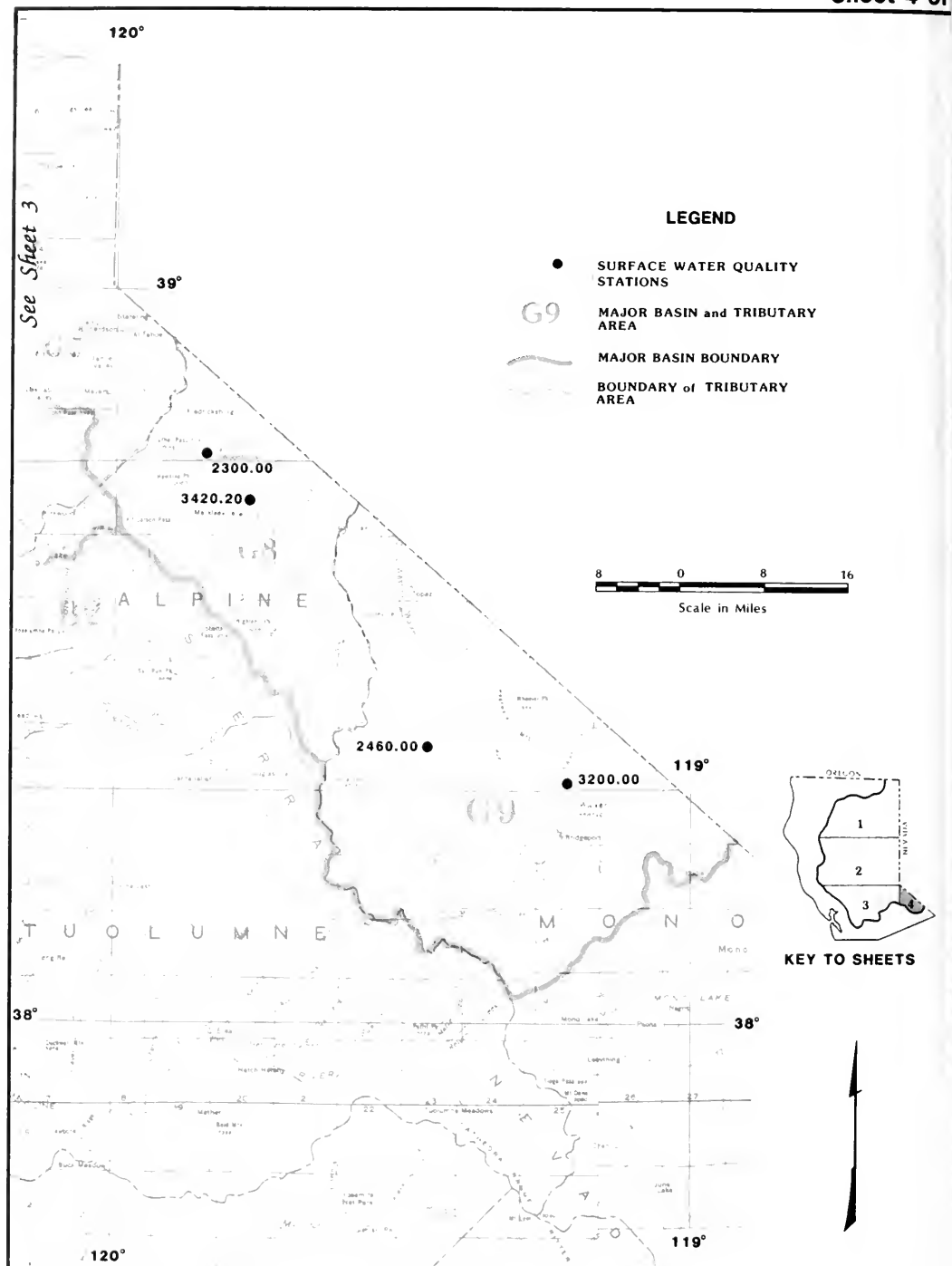


Figure 5. LOCATION OF SURFACE WATER QUALITY STATIONS

TABLE C-1
MINERAL ANALYSES OF SURFACE WATER

Lab and Sampler Agency Code

2163 - California Department of Water Resources for the State Water Resources Control Board
5050 - California Department of Water Resources

Abbreviations and Constituents

TIME	- Pacific Standard Time on a 24-hour clock
G. H.	- Instantaneous gage height in feet above an established datum
Q	- Instantaneous discharge in cubic feet per second (E = Estimated)
DO	- Dissolved oxygen content in milligrams per liter
SAT	- Percent of normal dissolved oxygen saturation
TEMP	- Water temperature at time of sampling in degrees Fahrenheit (F) or Celcius (C)
Field	- Determined in the field
Laboratory	- Determined in the laboratory
pH	- Measure of acidity or alkalinity of water
EC	- Electrical conductance in microsiemens at 25°C

Constituents:

B	-	Boron	K	-	Potassium
CA	-	Calcium	MG	-	Magnesium
CACO3	-	Calcium Carbonate	NA	-	Sodium
CL	-	Chloride	NO3	-	Nitrate
F	-	Fluoride	SIO2	-	Silica
			SO4	-	Sulfate

Boron, Fluoride, and Silica are reported in milligrams per liter. The other minerals are reported in each of three units; milligrams per liter, milliequivalents per liter, and percent reactance value; accordingly, each observation can use three lines of tabulation.

MILLIEQUIVALENTS PER LITER is the concentration in Mg/l divided by the equivalent weight of the ion.

PERCENT REACTANCE VALUE is determined by dividing the sum of the cations or anions in milliequivalents per liter into each constituent in milliequivalents per liter, arriving at a percentage.

TDS	- Gravimetric determination of total dissolved solids at 180°C
SUM	- Total dissolved solids by summation of analyzed constituents minus 40 percent of the carbonate weight
TH	- Total Hardness
NCH	- Noncarbonate hardness - any excess of total hardness over total alkalinity
TURB	- Jackson turbidity units measured with Hellige Turbidimeter (E) or a Hach nephelometer (A) with (F) for field determinations
SAR	- Sodium adsorption ratio
ASAR	- Adjusted sodium adsorption ratio

REM - Remarks; code letters are:

- T - Total dissolved solids and the calculated sum of constituents are not within 20 percent of each other.
- E - Total dissolved solids (TDS) value is not within the range of 0.35 to 0.70 of the electrical conductivity
- S - The anion sum and cation sum for a complete analysis is not within the prescribed tolerance of ± 5 percent.
- X - Indicates the field electrical conductivity and the laboratory electrical conductivity are not within 20 percent of each other.
- C - The electrical conductivity divided by the EC-EPM factor (or, if absent, 100) is not within 20 percent of the average of the cation sum and anion sum for complete analysis.

TABLE C-1
MINERAL ANALYSES OF SURFACE WATERS

DATE TIME	SAMPLES LAR	G.W. Q	DD SAT	TEMP	FIELD LABORATORY		MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE CATIONS				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE ANIONS				TDS M/G	TH M/G	SAR	REF
					PH	EC	CA	MG	NA	K	CaCO3	SO4	CL	NO3	THIR	FINP	FINP	FINP				
AN 0010.00 ANTELOPE LK NR RN																						
											A11F4											
04/25/85	5050	2.74	9.9	50.0F	7.2	78	8.0	2.0	4.0	1.3	3.7	2.0	1.0	0.0	0.0	0.0	13.0	0.0	0.3	E		
0930	0000	1	10.4	10.0C	7.7	78	4.0	1.0	1.7	0.3	0.2	0.4	0.3	0.0	0.0	0.0	0.0	0.0	0.2			
04/25/85	5050	2.74	8.7	45.0F	7.0	78	7.0	2.0	4.0	1.2	3.7	2.0	1.0	0.0	0.0	0.0	14.0	0.0	0.3	F		
0945	0000	20	8.6	7.2C	7.8	75	1.5	0.6	1.7	0.3	0.2	0.4	0.3	0.0	0.0	0.0	0.0	0.0	0.2			
AD X R1A.4 147.6 ILLATIS CR AT BROWN RN											A024D											
11/13/84	5050	8.2	59.0F	7.5	320	20	13	25	3.6	6.9	32	22	17.0	0.1	0.0	0.0	200	104	1.1			
1220	5050	81	15.0C	8.3	322	1.00	1.07	1.05	0.09	1.38	0.7	0.2	0.27	0.204	0.0	0.0	174	95	1.0			
11/28/84	5050	9.4	52.7F	7.7	240	14	9.0	1.8	3.9	5.5	2.5	1.4	7.5	0.2	0.0	0.0	157	72	0.9			
1200	5050	86	11.5C	8.0	232	0.70	0.74	0.78	0.10	1.10	0.2	0.39	0.12	0.204	0.0	0.0	132	17	1.0			
12/18/84	5050	12.5	42.8F	8.2	1010	6.6	4.3	9.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	342	0.0				
1115	5050	100	8.0C	1060	3.29	3.54	4.13	3.8	0.0	0.0	0.0	2.79	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
03/11/85	5050	9.6	58.1F	8.0	480	33	16	4.2	3.2	13.9	0.7	2.8	7.7	0.1	0.0	0.0	310	149	1.6			
1200	5050	84	14.5C	7.9	501	1.65	1.32	1.91	0.08	2.78	1.19	0.99	0.12	0.204	0.0	0.0	273	10	2.9			
AD X R21.5 150.8 ILLATIS CR AT HAWKINS RN											A024C											
12/18/84	5050	4.4	58.1F	8.0	890	6.8	4.3	9.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	347	0.0				
0940	5050	7.0C	914	3.39	3.54	2.7C	3.5	3.7	2.8	0.0	0.0	1.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
AD X R21.5 151.5 SAWTELLE DRAIN AT CLARK RN											A024D											
12/06/84	5050	11.0	54.5F	8.3	950	59	40	8.7	4.1	24.0	1.6	0.9	27.0	0.2	0.0	0.0	613	312	2.1			
1220	5050	103	12.5C	8.2	997	2.94	3.29	3.77	0.10	4.00	2.25	2.51	0.24	0.31.0	0.0	0.0	590	72	4.0			
AG 2170.00 SACRAMENTO R & FREMONT WEIR W. ENO																						
10/25/84	5050	9.6	58	F 7.6	176	13	7.0	12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	110	62	0.7			
1330	5050	9.4	14	C 7.3	179	0.65	0.58	0.52	0.0	0.0	1.32	0.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
11/28/84	5050	10.5	49	F 7.3	195	11	6.0	1.1	1.4	0.2	0.0	0.0	1.3	0.1	0.0	0.0	107	0.0	0.0			
1230	5050	92	9	C 7.6	149	0.55	0.49	0.44	0.04	1.04	0.19	0.17	0.02	0.0	0.0	0.0	76	0.0	0.0			
12/20/84	5050	2.4.01	10.5	48	F 7.3	13	7.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99	62	0.5			
1400	5050	90	9	C 7.2	161	0.65	0.58	0.53	0.0	0.0	1.20	0.14	0.0	0.0	0.0	0.0	0.0	2	0.0	0.0		
01/03/85	5050	19.02	10.7	46	F 7.4	224	15	9.0	1.6	1.4	7.4	21	8.0	0.2	0.0	0.0	137	74	0.8			
1300	5050	90	8	C 7.2	227	0.75	0.74	0.70	0.04	1.48	0.44	0.23	0.00	0.0	0.0	0.0	115	1	1.0			
02/19/85	5050	10.2	55	F 7.8	212	18	10	1.5	1.8	7.6	17	8.0	0.3	0.0	0.0	0.0	138	86	0.7			
1230	5050	96	13	C 7.9	220	0.90	0.82	0.65	0.05	1.52	0.35	0.23	0.00	0.0	0.0	0.0	116	10	1.0			
03/28/85	5050	16.95	10.2	52	F 7.8	216	17	10	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	171	84	0.8			
1330	5050	93	11	C 7.9	220	0.85	0.82	0.70	0.0	0.0	1.66	0.23	0.0	0.0	0.0	0.0	0.0	1	1.0	0.0		
04/26/85	5050	10.4	63.7F	7.8	177	17	9.0	1.4	0.0	0.0	7.5	0.0	0.0	0.0	0.0	0.0	124	80	0.7			
1345	5050	108	17.0C	7.5	190	0.99	0.74	0.61	0.0	0.0	1.50	0.17	0.0	0.0	0.0	0.0	0.0	5	0.0	0.0		
05/30/85	5050	10.3	65.0F	7.8	249	19	11	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	148	92	1.0			
1055	5050	111	10.2C	7.9	238	0.99	0.90	1.00	0.0	0.0	1.74	0.23	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0		
06/26/85	5050	8.4	73.0F	7.8	212	14	8.0	1.6	0.0	0.0	7.6	0.0	0.0	0.0	0.0	0.0	136	68	0.8			
1250	5050	97	22.8C	7.8	196	0.70	0.66	0.71	0.0	0.0	1.52	0.17	0.0	0.0	0.0	0.0	0.0	0.0	1.1			
07/30/85	5050	7.8	71.2F	7.9	216	14	8.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	123	88	0.0			
1200	5050	88	21.8C	7.9	199	0.70	0.66	0.65	0.0	0.0	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
08/15/85	5050	15.75	8.5	69.3F	8.0	199	13	8.0	1.4	0.0	7.9	0.0	0.0	0.0	0.0	0.0	171	88	0.7			
0945	5050	72	20.7C	8.4	198	0.85	0.66	0.61	0.0	0.0	1.58	0.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
09/19/85	5050	14.95	8.0	65.5F	7.9	245	16	10	1.8	1.7	9.2	17	9.0	0.4	0.1	0.0	152	81	0.9			
0730	5050	85	18.8C	8.4	245	0.80	0.82	0.78	0.04	1.84	0.35	0.28	0.01	0.0	0.0	0.0	127	0	1.2			
AD 2105.01 SACRAMENTO R RL KNIGHTS LANDING											A07FD											
10/30/84	5050	10.1	57.2F	7.6	162	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
1200	5050	08	14.0C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
02/25/85	5050	10.9	55.4F	7.7	201	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
1305	5050	103	13.0C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
04/29/85	5050	9.3	65.3F	7.9	243	20	12	2.6	0.0	0.0	8.8	0.0	0.0	0.0	0.0	0.0	100	1.1				
1315	5050	99	18.5C	7.7	250	1.00	0.99	1.13	0.0	0.0	1.76	0.0	0.0	0.0	0.0	0.0	12	1.7				

TABLE C-1 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLE ID	DATE	NO. CAT	TEMP	FIELD		MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE				TOC SEM	TH NCM	SAR ACSB	REMARKS
					LABORATORY PH	EC	Ca	Mg	Na	K	CaCO3	SO4	Cl	NO3	TDS	SEM	TH	SAR				
AC 2105.01 SACRAMENTO R EL KNIGHTS LANDING																						
											AC700 CONTINUED											
07/30/85	5050			71.6F	7.4	101	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
1140	5050			22.0C																		
08/26/85	5050			73.4F	7.4	254	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
1740	5050			23.0C																		
AC 2670.02 SACRAMENTO R AN COLUSA BASIN DR																						
											AC740											
10/30/84	5050			37.2F	7.7	147	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
1045	5050			14.0C																		
11/20/84	5050			50.0F	7.4	146	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
1110	5046			10.0C																		
02/25/85	5050			55.4F	7.4	175	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
1225	5050			13.0C																		
03/24/85	5050			52.7F	7.4	180	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
1140	5050			11.5C																		
04/20/85	5050			62.6F	7.4	165	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
1009	5050			17.0C																		
05/20/85	5050			66.2F	7.4	184	14	6.0	12	--	73	--	6.0	--	--	--	--	--	--	--		
1124	5050			19.0C	7.4	187	170	37	33	52	28	1.46	1.17	--	--	--	--	--	66	0.6		
06/20/85	5050			70.7F	7.4	156	--	--	--	--	--	--	--	--	--	--	--	--	0	0.6		
1105	5056			21.4C																		
07/30/85	5040			69.6F	7.4	149	--	--	--	--	--	--	--	--	--	--	--	--				
1025	5050			21.0C																		
08/20/85	5040			71.5F	7.7	101	--	--	--	--	--	--	--	--	--	--	--	--				
1243	5050			22.0C																		
09/25/85	5050			69.6F	8.1	181	--	--	--	--	--	--	--	--	--	--	--	--				
1103	5050			21.0C																		
AC 2420.00 SACRAMENTO R A COLUSA																						
											AC740											
10/30/84	5050			55.4F	7.4	138	--	--	--	--	--	--	--	--	--	--	--	--				
0600	5050			13.0C																		
11/20/84	5040			49.1F	7.4	114	--	--	--	--	--	--	--	--	--	--	--	--				
0910	5050			9.5C																		
12/27/84	5050			48.2F	7.4	165	--	--	--	--	--	--	--	--	--	--	--	--				
1053	5050			9.0C																		
01/27/85	5050			48.2F	7.4	163	--	--	--	--	--	--	--	--	--	--	--	--				
1205	5056			9.0C																		
02/25/85	5040			54.5F	7.4	182	13	7.0	9.0	--	80	--	4.0	--	--	--	--	--	62	0.6		
0945	5050			12.5C	8.0	171	165	34	36	24	1.30	--	1.11	--	--	--	--	--	0	0.6		
03/22/85	5040			50.0F	7.4	157	--	--	--	--	--	--	--	--	--	--	--	--				
0600	5040			10.0C																		
04/20/85	5040			62.6F	8.2	175	--	--	--	--	--	--	--	--	--	--	--	--				
0815	5050			17.0C																		
05/19/85	5040			60.4F	7.4	151	--	--	--	--	--	--	--	--	--	--	--	--				
0910	5050			18.0C																		
06/20/85	5040			65.3F	7.4	144	--	--	--	--	--	--	--	--	--	--	--	--				
0605	5050			18.4C																		
07/30/85	5050			66.2F	8.0	131	--	--	--	--	--	--	--	--	--	--	--	--				
0830	5046			19.0C																		
08/20/85	5050			71.5F	7.4	149	--	--	--	--	--	--	--	--	--	--	--	--				
0605	5050			22.0C																		
09/24/84	5050			71.5F	7.7	163	--	--	--	--	--	--	--	--	--	--	--	--				
0800	5050			22.0C																		

TABLE C-1 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLE LAB	Q. #	ON SAT	TEMP	FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER				MILLIEQUIVALENTS PER LITER				TDS MG/L	TH MG/L	540 MG/L	DEP	
							Ca	Mg	Na	K	CO ₃	SO ₄	CL	NO ₃	PERCENT	REACTANCE	VALUE	μ					μ
AD 2500.00 SACRAMENTO R A RUTTE CITY AC700																							
11/29/84 0820	5050 5050	31500	11.0 96	49.1F 9.5C	7.3	114	--	--	--	--	--	--	--	--	--	--	1364F	--	--	--	--	--	--
01/27/85 1105	5050 5050	8A20	12.0 103	47.3F A.5C	7.4	174	--	--	--	--	--	--	--	--	--	--	14F	--	--	--	--	--	--
03/28/85 0840	5050 5050	8280	11.0 95	48.2F 9.0C	7.1	164	--	--	--	--	--	--	--	--	--	--	44F	--	--	--	--	--	--
05/29/85 0830	5050 5050	6340	10.5 104	59.0F 15.0C	7.4 7.8	150 150	12 41	640 49	9.6 33	--	63 1.2F	--	4.0 11	--	--	--	4.1 44	--	54 0	0.4 0.4	5	--	
07/30/85 0730	5050 5050	7580	9.5 100	68.4F 18.0C	7.6	131	--	--	--	--	--	--	--	--	--	--	38F	--	--	--	--	--	--
09/26/85 0815	5050 5050	445A	9.3 101	67.1F 19.5C	7.4	149	--	--	--	--	--	--	--	--	--	--	58F	--	--	--	--	--	--
AD 2630.00 SACRAMENTO R A HAMILTON CITY A1390																							
11/29/84 0744	5050 5050	33.70 23700	11.5 100	46.2F 9.0C	7.1	116	--	--	--	--	--	--	--	--	--	--	544F	--	--	--	--	--	--
01/27/85 1030	5050 5050	29.27 4010	11.6 94	47.3F 9.5C	7.4	140	--	--	--	--	--	--	--	--	--	--	24F	--	--	--	--	--	--
03/28/85 0820	5050 5050	29.42 7520	10.3 89	48.2F 9.0C	7.2	141	--	--	--	--	--	--	--	--	--	--	58F	--	--	--	--	--	--
05/29/85 0744	5050 5050	29.31 A550	10.1 100	59.0F 15.0C	7.6 7.7	144 151	14 470	7.0 58	10 34	--	64 1.2F	--	4.0 11	--	--	--	4.1 44	--	54 0	0.5 0.6	5	--	
07/30/85 0700	5050 5050	29.66 0700	9.8 101	62.4F 17.0C	7.6	131	--	--	--	--	--	--	--	--	--	--	24F	--	--	--	--	--	--
09/26/85 0740	5050 5050	28.55 08	9.1 98	66.2F 19.0C	7.4	149	--	--	--	--	--	--	--	--	--	--	14F	--	--	--	--	--	--
AD 2755.00 SACRAMENTO R AL RED BLUFF DIV ON A1390																							
10/26/84 0825	5050 5050	5300	10.6 103	57.2F 14.0C	7.4	137	--	--	--	--	--	--	--	--	--	--	44F	--	--	--	--	--	--
11/19/84 0830	5050 5050	21940	10.6 99	53.6F 12.0C	7.4	137	--	--	--	--	--	--	--	--	--	--	78F	--	--	--	--	--	--
12/17/84 0955	5050 5050	14000	11.1 99	49.1F 9.5C	7.3	135	--	--	--	--	--	--	--	--	--	--	58F	--	--	--	--	--	--
01/22/85 1015	5050 5050	7320	11.6 101	46.2F 9.0C	7.4	131	--	--	--	--	--	--	--	--	--	--	24F	--	--	--	--	--	--
02/20/85 0845	5050 5050	6600	10.9 95	44.2F 9.0C	7.6	137	--	--	--	--	--	--	--	--	--	--	14F	--	--	--	--	--	--
03/19/85 0935	5050 5050	5100	12.0 112	53.6F 12.0C	7.7 8.4	144 154	12 460	6.0 49	9.6 33	--	64 1.2F	--	4.0 11	--	--	--	4.1 44	--	54 0	0.5 0.6	5	--	
04/25/85 0830	5050 5050	6240	11.7 109	53.6F 12.0C	7.6	144	--	--	--	--	--	--	--	--	--	--	14F	--	--	--	--	--	--
05/22/85 1250	5050 5050	6940	11.5 114	56.4F 14.8C	7.8	131	--	--	--	--	--	--	--	--	--	--	24F	--	--	--	--	--	--
06/24/85 0714	5050 5050	10400	11.0 107	57.2F 14.0C	7.9	131	--	--	--	--	--	--	--	--	--	--	14F	--	--	--	--	--	--
07/23/85 0745	5050 5050	14000	10.7 104	47.2F 14.5C	7.4	127	--	--	--	--	--	--	--	--	--	--	14F	--	--	--	--	--	--
08/26/85 0735	5050 5050	4960	9.6 102	44.4F 18.0C	7.7	129	--	--	--	--	--	--	--	--	--	--	14F	--	--	--	--	--	--
09/13/85 0730	5050 4650	4560	9.7 101	42.4F 17.0C	7.3	126	--	--	--	--	--	--	--	--	--	--	44F	--	--	--	--	--	--

TABLE C-1 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLE LAB	C.F. G	RE CAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER						
						Ca	Mg	Na	K	CaCO3	SC4	CL	NO3	THOR	SI02	TDS	SiH	TM	SAP	REM
AU 2750.00						TF-HAMA COLUSA CANAL NR RENO ALIIF				A1390										
10/22/84 0715	5050 5050	715	10.2 99	57.2F 14.0C	7.6 143	--	--	--	--	--	--	--	--	--	14F	--	--	--	--	--
11/19/84 0744	5050 5050	115	10.6 99	53.6F 12.0C	7.4 147	--	--	--	--	--	--	--	--	--	124F	--	--	--	--	--
12/17/84 0615	5050 5050	115	10.9 99	49.1F 9.5C	7.3 138	--	--	--	--	--	--	--	--	--	54F	--	--	--	--	--
01/27/85 0940	5050 5050	115	11.3 99	49.1F 9.5C	7.4 154	--	--	--	--	--	--	--	--	--	34F	--	--	--	--	--
02/20/85 0913	5050 5050	176	10.4 93	49.1F 9.5C	7.6 150	--	--	--	--	--	--	--	--	--	44F	--	--	--	--	--
03/19/85 0830	5050 5050	115	11.2 104	53.6F 12.0C	7.7 149	--	--	--	--	--	--	--	--	--	24F	--	--	--	--	--
04/25/85 0755	5050 5050	1540	11.1 103	53.6F 12.0C	7.9 148	--	--	--	--	--	--	--	--	--	34F	--	--	--	--	--
05/22/85 1214	5050 5050	1463	11.0 109	54.6F 14.4C	7.6 132 7.0 135	11 .55	5.0 4.41	8.6 1.31	--	74 1.12	--	3.0 .08	--	1.1 14	--	--	--	48 0	0.5 0.5	5
06/24/85 0845	5050 5050	1688	10.9 106	57.2F 14.0C	7.9 138	--	--	--	--	--	--	--	--	--	34F	--	--	--	--	--
07/23/85 0710	5050 5050	1420	10.1 99	48.1F 14.5C	7.4 131	--	--	--	--	--	--	--	--	--	14F	--	--	--	--	--
08/26/85 1110	5050 5050	834	9.4 101	44.6F 19.0C	7.7 129	--	--	--	--	--	--	--	--	--	24F	--	--	--	--	--
09/13/85 0700	5050 5050	930	9.4 99	62.6F 17.0C	7.4 129	--	--	--	--	--	--	--	--	--	34F	--	--	--	--	--
AD 2745.00						SACRAMENTO R & RENO RR				A1740										
10/24/84 1124	5050 5050	904 9775	10.1 101	59.0F 15.0C	7.4 143	--	--	--	--	--	--	--	--	--	34F	--	--	--	--	--
11/21/84 0744	5050 5050	1406 15400	10.5 96	51.8F 11.0C	7.3 111	--	--	--	--	--	--	--	--	--	34F	--	--	--	--	--
12/19/84 1035	5050 5050	1212 11640	12.5 100	48.2F 9.0C	7.1 136	--	--	--	--	--	--	--	--	--	44F	--	--	--	--	--
01/14/85 0817	5050 5050	1436 4636	11.7 102	48.2F 9.0C	7.3 149	--	--	--	--	--	--	--	--	--	34F	--	--	--	--	--
02/14/85 1330	5050 5050	1401 3773	11.7 164	50.0F 10.0C	7.7 155	--	--	--	--	--	--	--	--	--	34F	--	--	--	--	--
03/12/85 0900	5050 5050	1428 4410	11.4 102	50.0F 10.0C	7.4 150	--	--	--	--	--	--	--	--	--	44F	--	--	--	--	--
04/17/85 5050	5050 5050	1448 4936	10.9 104	55.4F 13.0C	7.6 139	--	--	--	--	--	--	--	--	--	34F	--	--	--	--	--
05/23/85 0845	5050 5050	1408 4200	10.7 104	57.2F 14.0C	7.5 137 7.4 134	11 .55	5.0 4.41	8.6 1.31	--	58 1.12	--	3.0 .08	--	1.0 21	--	--	--	48 0	0.5 0.5	5
06/11/85 1050	5050 5050	1404 4440	10.5 102	47.2F 14.0C	7.3 132	--	--	--	--	--	--	--	--	--	34F	--	--	--	--	5
07/25/85 0715	5050 5050	1122 4460	13.6 97	47.2F 14.0C	7.4 130	--	--	--	--	--	--	--	--	--	34F	--	--	--	--	5
08/23/85 1100	5050 5050	1404 3760	10.0 100	49.0F 15.0C	7.3 128	--	--	--	--	--	--	--	--	--	34F	--	--	--	--	5
09/24/85 0704	5050 5050	1470 3604	9.4 94	42.6F 17.0C	7.3 137	--	--	--	--	--	--	--	--	--	24F	--	--	--	--	5
FD 2464.00						R-0 1500 NR SIH TO SAC SIH NR KARNAN				A6740										
10/30/84 1640	5050 5050	1100 104	11.0 104	47.2F 14.0C	7.1 1140	--	--	--	--	--	--	--	--	--	144F	--	--	--	--	5
11/29/84 1045	5050 5050	900 94	9.6 94	50.0F 10.0C	7.7 885	--	--	--	--	--	--	--	--	--	474F	--	--	--	--	5

TABLE C-1 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.M. O	DO SAT	TEMP	FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER				MILLIEQUIVALENTS PER LITER				PERCENT REACTION VALUE																																																																																																																																																																																																																																																																																																																																
							CA	MG	NA	K	CaCO ₃	SO ₄	CL	NO ₃	CO ₃	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	SiO ₂	

TABLE C-1 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

TIME	SAMPLER LAB	G.H. O	OF SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER				TDS S/M	TH NCM	SAR 4500	REM		
						CA	MG	NA	K	CL	CO3	SO4	CL	NO3	TH00	ST02	F						
AC		2047.00		R-N 100 DR TO SAC R				AC740 CONTINUED															
04/20/83 1100	5050 5050	0	7.6 97	70.7F 21.5C	R.0	903	--	--	--	--	--	--	--	--	--	314F	--						
05/20/85 1225	5040 5050	0	7.7 87	71.4F 22.0C	7.9	501	--	--	--	--	--	--	--	--	--	424F	--						
06/26/85 1144	5050 5050	0	7.0 90	64.2F 20.0C	7.8	497	--	--	--	--	--	--	--	--	--	254F	--						
07/30/85 1104	5050 5050	0	7.6 79	74.1F 24.5C	7.4	167	--	--	--	--	--	--	--	--	--	14F	--						
08/25/85 1154	5050 5050	0	7.6 76	73.4F 23.0C	7.4	512	--	--	--	--	--	--	--	--	--	434F	--						
09/26/84 1144	5050 5050	107	7.5 78	77.0F 24.0C	7.9	861	--	--	--	--	--	--	--	--	--	424F	--						
40		2047.10		COLUSA R45 DR NR KNIGHTS LOG				40781															
10/30/84 1100	5050 5050	22.91 945	9.4 92	59.1F 14.5C	7.9	507	--	--	--	--	--	--	--	--	--	384F	--						
11/20/84 1135	5050 5050	223	9.7 86	50.0F 10.0C	7.6	629	--	--	--	--	--	--	--	--	--	724F	--						
12/27/84 1330	5050 5050	243	11.5 65	44.4F 7.0C	8.1	1019	--	--	--	--	--	--	--	--	--	264F	--						
01/27/85 1434	5050 5050	397	9.9 85	48.2F 9.0C	8.2	1140	--	--	--	--	--	--	--	--	--	314F	--						
02/25/85 1200	5050 5050	23.08 174	9.6 93	57.2F 14.0C	8.2	1340	--	--	--	--	--	--	--	--	--	254F	--						
03/26/84 1215	5050 5050	23.07 270	10.1 61	51.8F 11.0C	8.2	1043	--	--	--	--	--	--	--	--	--	164F	--						
04/20/85 1044	5050 5050	174	8.3 60	67.1F 19.5C	7.9 8.4	402 402	21 1.05	35 1.23	4C 1.74	-- 43	129 2.58	-- 18	-- .51	-- --	-- 444	-- --	114 0	1.6 2.7					
05/20/85 1205	5050 5050	24.96 1300	7.8 84	68.0F 20.0C	7.9	449	--	--	--	--	--	--	--	--	--	444F	--						
06/26/85 1134	5050 5050	734	8.3 77	78.8F 26.0C	7.8	482	--	--	--	--	--	--	--	--	--	404F	--						
07/30/84 1044	5050 5050	25.46 1030	8.7 85	62.4F 28.0C	7.7	390	--	--	--	--	--	--	--	--	--	674F	--						
08/28/85 1130	5050 5050	1740	7.0 80	72.5F 22.4C	7.7	400	--	--	--	--	--	--	--	--	--	344F	--						
09/26/85 1144	5050 5050	831	7.2 82	71.6F 22.0C	7.9	473	--	--	--	--	--	--	--	--	--	454F	--						
40		2046.00		R-N 787 DRAINAGE TO COLUSA R45 DRAIN				40740															
10/30/84 1055	5050 5050	0	9.4 97	59.0F 15.0C	8.3	840	--	--	--	--	--	--	--	--	--	334F	--						
01/27/85 1424	5050 5050	12.3 104	8.6 84	46.4F 8.0C	8.1	833	--	--	--	--	--	--	--	--	--	184F	--						
02/25/85 1144	5050 5050	0	8.2 80	57.2F 14.0C	7.9	863	--	--	--	--	--	--	--	--	--	344F	--						
03/26/85 1204	5050 5050	0	8.3 84	51.8F 11.0C	8.2	821	--	--	--	--	--	--	--	--	--	234F	--						
04/20/85 1030	5050 5050	0	8.6 84	67.1F 19.5C	7.9	234	--	--	--	--	--	--	--	--	--	274F	--						
05/20/85 1134	5050 5050	9	8.4 91	67.1F 19.5C	7.9 8.1	867 643	34 1.80	33 2.71	76 3.35	-- 23	205 4.10	-- 1.02	-- 36	-- 294	-- --	-- 47	-- --	226 21	2.3 4.8				
06/26/85 1134	5050 5050	13.8 172	8.6 82	60.6F 27.0C	8.4 8.2	339 342	18 1.32	14 1.26	24 3.34	-- 34	133 2.86	-- 11	-- 31	-- --	-- 144	-- --	111 0	1.2 2.0					
07/30/84 1044	5050 5050	0	7.1 85	72.5F 24.0C	8.0	134	--	--	--	--	--	--	--	--	--	34F	--						

TABLE C-1 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLE LAB	CHL O	CO SAT	TEMP	FIELD LABORATORY PH	MINERAL CONSTITUENTS IN EC	CA	MG	NA	K	MILLIGRAMS PER LITER MULTIPLY BY PERCENT REACTANCE VALUE	MILLIGRAMS PER LITER MULTIPLY BY PERCENT REACTANCE VALUE	CL	NO3	YHPO	SIO2	TPS	TM	SAP	DEM

AO 2940.00 E-D 747 DRAINAGE TO COLUSA 445 DRAIN AC740 CONTINUED																				
08/28/85 1125	5050 5050	3.7		6.6 76	73.4F 23.2C	7.8	617	--	--	--	--	--	--	--	--	--	--	--	--	--
09/26/85 1125	5050 5050	0		6.8 74	77.0F 25.0C	8.1	730	--	--	--	--	--	--	--	--	--	--	--	--	--
AO 2955.00 E-D 747 DRAINAGE TO SACRAMENTO R AC740																				
11/29/84 1205	5050 5050	0		9.2 84	52.7F 11.5C	7.6	524	--	--	--	--	--	--	--	--	--	--	--	--	--
12/27/84 1405	5050 5050	0		8.8 76	50.0F 10.0C	7.7	622	--	--	--	--	--	--	--	--	--	--	--	--	--
01/27/85 1505	5050 5050	0		9.8 83	46.4F 8.0C	8.0	871	--	--	--	--	--	--	--	--	--	--	--	--	--
03/26/85 1250	5050 5050	0		11.7 104	53.6F 12.0C	8.4	1024	--	--	--	--	--	--	--	--	--	--	--	--	--
04/28/85 1115	5050 5050	0		10.2 110	67.1F 14.5C	8.0	234	--	--	--	--	--	--	--	--	--	--	--	--	--
05/20/85 1245	5050 5050	0		7.5 82	68.0F 20.0C	7.5	444	--	--	--	--	--	--	--	--	--	--	--	--	--
06/26/85 1213	5050 5050	0		7.8 94	77.0F 25.0C	7.5	475	--	--	--	--	--	--	--	--	--	--	--	--	--
07/30/85 1120	5050 5050	23		4.4 50	72.5F 22.5C	7.1	203	--	--	--	--	--	--	--	--	--	--	--	--	--
08/28/85 1210	5050 5050	0		6.2 72	74.3F 23.5C	7.4 8.6	590 584	28 1.40	25 2.06	60 2.01	-- 3.78	149 3.78	-- 34	-- 9.06	-- 34	-- 34	-- 34	-- 34	173 0	2.0 3.9
09/26/85 1210	5050 5050	0		14.0 165	75.2F 24.0C	8.6	477	--	--	--	--	--	--	--	--	--	--	--	--	5
AO 2965.00 E-D 747 DRAINAGE TO SACRAMENTO R AC740																				
10/30/84 0940	5050 5050	0		6.8 86	57.2F 14.0C	7.9	650	--	--	--	--	--	--	--	--	--	--	--	--	5
11/29/84 1005	5050 5050	30		8.3 77	53.6F 12.0C	7.4	602	--	--	--	--	--	--	--	--	--	--	--	--	5
02/25/85 1030	5050 5050	0		8.6 82	56.3F 13.5C	7.8	879	--	--	--	--	--	--	--	--	--	--	--	--	5
03/28/85 1035	5050 5050	0		9.2 84	52.7F 11.5C	8.0	414	--	--	--	--	--	--	--	--	--	--	--	--	5
04/29/85 0900	5050 5050	0		9.6 106	48.9F 20.5C	8.1	270	--	--	--	--	--	--	--	--	--	--	--	--	5
05/20/85 1010	5050 5050	19		7.7 79	62.6F 17.0C	7.7 7.9	324 317	21 1.05	14 1.15	23 1.00	-- 3.3	114 2.32	-- 9.51	-- 9.51	-- 9.51	-- 9.51	-- 9.51	-- 9.51	110 0	1.0 1.6
06/26/85 1000	5050 5050	0		8.5 77	75.2F 24.0C	7.8	321	--	--	--	--	--	--	--	--	--	--	--	--	5
07/30/85 0915	5050 5050	23		6.4 72	70.7F 21.5C	7.5	105	--	--	--	--	--	--	--	--	--	--	--	--	5
08/28/85 0945	5050 5050	0		6.9 79	72.5F 22.5C	7.6	317	--	--	--	--	--	--	--	--	--	--	--	--	5
09/26/85 0945	5050 5050	0		10.0 114	71.6F 22.0C	8.3	472	--	--	--	--	--	--	--	--	--	--	--	--	5
AO 2972.00 ROUTE 510 N. MERIDIAN AC750																				
10/30/84 0920	5050 5050	274		6.6 84	57.2F 14.0C	7.2	251	--	--	--	--	--	--	--	--	--	--	--	--	5
11/29/84 0944	5050 5050	2230		9.7 84	49.1F 9.5C	7.3	192	--	--	--	--	--	--	--	--	--	--	--	--	5
12/27/84 1115	5050 5050	11.1		8.5 81	44.6F 7.0C	7.4	209	--	--	--	--	--	--	--	--	--	--	--	--	5
01/27/85 1230	5050 5050	300		11.1 84	46.4F 8.0C	7.4 8.2	324 342	25 1.25	17 1.40	21 0.91	-- 2.6	140 3.00	-- 1.0	-- 2.6	-- 2.6	-- 2.6	-- 2.6	-- 2.6	133 0	0.8 1.4

TABLE C-1 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLED LAB	G.W. O	DN SAT	TEMP	FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER PERCENT REACTANCE VALUE				TNS SLIP	TU MCH	SAR ACAR	DEM
							CA	MG	NA	K	SO4	CL	NO3	THUR	SO4	CL	NO3	THUR				
AC 2072.00 RITTE SLU NW MERIDIAN AC7CO CONTINUED																						
02/24/84 1035	5040 5050	41.39 214	0.4 01	57.2F 14.0C	7.7	286	--	--	--	--	--	--	--	--	--	--	248F	--	--	--	--	
03/21/84 1010	4650 5050	42.40 423	10.2 01	50.0F 10.5C	7.4	225	--	--	--	--	--	--	--	--	--	--	448F	--	--	--	--	
04/20/85 0840	5050 5050	41.40 240	7.2 70	68.0F 20.0C	7.3	259	--	--	--	--	--	--	--	--	--	--	174F	--	--	--	--	
05/20/85 0545	5050 5050	42.46 432	7.6 83	68.0F 20.0C	7.3	232	--	--	--	--	--	--	--	--	--	--	114F	--	--	--	--	
06/24/85 0935	5050 4050	43.00 447	7.4 70	77.0F 25.0C	7.4	283	--	--	--	--	--	--	--	--	--	--	124F	--	--	--	--	
07/30/84 0555	5040 5050	44.35 480	7.6 78	75.2F 24.0C	7.3	191	--	--	--	--	--	--	--	--	--	--	148F	--	--	--	--	
08/24/85 0520	5050 5050	45.28 401	6.5 75	73.4F 23.0C	7.2	274	24 1.20	15 1.23	16 70 22	--	141 2.42	--	4.0 .11	--	4.1 74	--	--	--	122 0	0.6 1.1	5	
09/24/85 0920	5050 5050	41.43 368	6.4 74	73.4F 23.0C	7.2	349	--	--	--	--	--	--	--	--	--	--	248F	--	--	--	--	
40 2074.00 CULUSA 945 DP A HWY 20 40741																						
10/30/84 0845	5050 5050	40.04 463	0.6 01	54.4F 13.0C	7.0	508	--	--	--	--	--	--	--	--	--	--	234F	--	--	--	--	
11/20/84 0445	5050 5050	45.47 1470	9.8 46	40.1F 0.5C	7.5	470	--	--	--	--	--	--	--	--	--	--	1204F	--	--	--	--	
12/27/84 1025	5050 4050	39.01 313	12.3 101	44.4F 7.0C	8.1	559	--	--	--	--	--	--	--	--	--	--	144F	--	--	--	--	
01/27/85 1140	5050 5050	38.42 211	11.6 00	47.3F 8.5C	8.0	1120	--	--	--	--	--	--	--	--	--	--	154F	--	--	--	--	
02/25/84 0925	5050 5050	38.10 154	9.5 00	55.4F 13.0C	8.1	1000	--	--	--	--	--	--	--	--	--	--	304F	--	--	--	--	
03/28/85 0930	5050 4040	34.54 213	10.7 05	50.0F 10.0C	8.2	907	51 2.54	38 3.13	123 5.35 46	--	235 4.70	--	4.9 1.78	--	4.3 314	--	--	--	244 49	3.2 7.1	5	
04/20/85 0755	5050 4050	34.41 243	8.1 85	44.4F 18.0C	8.2	441	--	--	--	--	--	--	--	--	--	--	584F	--	--	--	--	
05/20/85 0900	5050 4050	39.01 313	8.8 03	54.4F 15.0C	7.4	454	--	--	--	--	--	--	--	--	--	--	594F	--	--	--	--	
06/24/84 0445	5050 5050	42.405 004	7.3 85	73.4F 23.0C	7.8	442	--	--	--	--	--	--	--	--	--	--	214F	--	--	--	--	
07/30/84 0800	5040 5050	44.34 1394	7.4 44	70.7F 21.5C	7.5	306	--	--	--	--	--	--	--	--	--	--	374F	--	--	--	--	
08/28/85 0835	5050 5050	44.81 1604	7.6 84	68.0F 20.0C	7.4	371	--	--	--	--	--	--	--	--	--	--	204F	--	--	--	--	
09/24/84 0845	5050 5050	41.70 730	7.1 73	62.6F 17.0C	7.6	440	--	--	--	--	--	--	--	--	--	--	254F	--	--	--	--	
40 3220.01 THOMES C & RICHFIELD 41340																						
12/17/84 1120	5050 5050	42.4 453F	12.4 105	45.5F 7.5C	7.7	205	--	--	--	--	--	--	--	--	--	--	58F	--	--	--	--	
04/24/85 0814	5050 4040	40.0 2F	8.0 02	71.6F 22.0C	7.5	320	--	--	--	--	--	--	--	--	--	--	24F	--	--	--	--	
40 5320.00 ELDER C & GERBER 41340																						
12/17/84 1054	5040 5050	42.4 74E	12.4 90	44.6F 7.0C	7.9	310	--	--	--	--	--	--	--	--	--	--	24F	--	--	--	--	
08/24/85 0800	5050 5050	44.1 1F	9.1 100	68.0F 20.0C	8.1	452	--	--	--	--	--	--	--	--	--	--	24F	--	--	--	--	

TABLE C-1 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAN	C.W. D	NO SAT	TEMP	FIELD LABORATORY PH	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER				MILLIGRAMS PER LITER				REM	
						CA	MG	NA	K	MILLIEQUIVALENTS PER LITER				TPS S1M	TH NCH	SAR ASAR			
										PERCENT	REACTANCE	VALU	CA						

AO		3440.00		REN RANK C NR RED ALUFF										A1340					
01/22/85	5050	3.98	12.2	53.6F	R.2	504	--	--	--	--	--	--	--	--	--	--	--		
1340	5050	3.98	115	12.0C											14F	--			
AO		3500.00		THOMES C & PASKENTA										A1390					
10/26/84	5050	2.02	10.7	66.2F	R.3	364	--	--	--	--	--	--	--	--	--	--	--		
1105	5050	17	117	14.0C											24F	--			
11/10/84	5050	3.85	11.4	48.2F	7.5	139	--	--	--	--	--	--	--	--	--	--	--		
1105	5050	51.9	102	9.0C											204F	--			
12/17/84	5050	3.38	12.0	44.6F	7.6	161	--	--	--	--	--	--	--	--	--	--	--		
1505	5050	277	101	7.0C											94F	--			
01/22/85	5030	3.02	12.5	48.2F	R.0	182	--	--	--	--	--	--	--	--	--	--	--		
1245	5030	230	110	9.0C											44F	--			
02/20/85	5050	3.29	11.2	48.2F	7.8	162	--	--	--	--	--	--	--	--	--	--	--		
1135	5050	283	99	9.0C											94F	--			
03/19/85	5050	3.07	11.2	55.4F	7.9	184	--	--	--	--	--	--	--	--	--	--	--		
1205	5050	206	108	13.0C											124F	--			
04/25/85	5050	3.07	10.6	57.2F	R.0	175	--	--	--	--	--	--	--	--	--	--	--		
1200	5050	190	105	14.0C											44F	--			
05/22/85	5050	2.67	R.6	79.2F	8.2	185	25	5.0	3.0	7.6	--	3.0	--	1.0	--	--	R.3	0.1	
1535	5050	99	108	26.2C	8.0	193	1.25	.41	.13	1.42	--	.04	--	14	--	--	7	0.2	
							70	23	7									5	
06/24/85	5050	1.92	9.0	77.0F	8.5	266	--	--	--	--	--	--	--	--	--	--	--		
1045	5050	20	110	25.0C											24F	--			
07/23/85	5050	1.57	9.5	87.8F	R.5	326	--	--	--	--	--	--	--	--	--	--	--		
1045	5050	3.4	129	31.0C											24F	--			
08/26/85	5050	1.48	9.7	82.4F	R.3	360	--	--	--	--	--	--	--	--	--	--	--		
1010	5050	2.2	125	28.0C											24F	--			
09/13/85	5050	1.74	10.1	71.6F	8.3	428	--	--	--	--	--	--	--	--	--	--	--		
1115	5050	10	117	22.0C											94F	--			
AO		3520.50		COTTONWOOD C & COTTONWOOD										A1780					
10/24/84	5050	10.6	62.6F	7.5	286	25	13	11	--	105	--	17	--	1.0	--	--	116	0.4	
1100	5050	140	111	17.0C	8.0	287	1.25	1.07	.48	2.10	--	.48	--	34	--	--	11	0.7	
							45	38	17									5	
11/21/84	5050	11.0	48.2F	7.3	210	--	--	--	--	--	--	--	--	--	--	--	--		
0900	5050	1220	96	9.0C											94F	--			
12/19/84	5040	11.9	41.0F	7.3	270	--	--	--	--	--	--	--	--	--	--	--	--		
1105	5050	678	94	5.0C											34F	--			
01/16/85	5050	12.2	44.6F	7.9	296	--	--	--	--	--	--	--	--	--	--	--	--		
0925	5050	394	102	7.0C											14F	--			
02/14/85	5050	11.2	50.0F	7.8	270	26	13	11	--	109	--	7.0	--	1.0	--	--	119	0.4	
1300	5050	690	100	10.0C	R.2	280	1.30	1.07	.48	2.18	--	.20	--	24	--	--	10	0.7	
							46	38	17									5	
03/12/85	5050	11.0	51.8F	7.8	308	--	--	--	--	--	--	--	--	--	--	--	--		
0910	5050	497	101	11.0C											14F	--			
04/17/85	5050	9.8	62.6F	8.0	220	--	--	--	--	--	--	--	--	--	--	--	--		
1220	5050	596	102	17.0C											34F	--			
05/23/85	5050	8.9	71.6F	7.7	257	--	--	--	--	--	--	--	--	--	--	--	--		
0810	5050	234	102	22.0C											34F	--			
06/14/85	5050	9.8	77.0F	7.9	254	--	--	--	--	--	--	--	--	--	--	--	--		
1020	5050	120	119	25.0C											24F	--			
07/25/85	5050	7.5	77.0F	7.1	218	--	--	--	--	--	--	--	--	--	--	--	--		
0840	5050	49	91	25.0C											34F	--			
08/21/85	5050	9.7	75.2F	7.3	223	--	--	--	--	--	--	--	--	--	--	--	--		
1025	5050	47	136	24.0C											24F	--			
09/24/85	5050	8.5	64.4F	7.1	218	--	--	--	--	--	--	--	--	--	--	--	--		
0815	5050	100	90	18.0C											24F	--			

TABLE C-1 (CONTINUED)

MINERAL ANALYSES OF SURFACE WATER																						
DATE TIME	SAMPLER LAB	G.M. O	NO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN						MILLIGRAMS PER LITER				MILLIGRAMS PER LITER						
						CA	MG	NA	K			MILLIEQUIVALENTS PER LITER	PERCENT REACTANCE VALUE	SON	CL	NO3	TURB	SILO	TPC	TH	ASAR	PER
.....																						
40 3545.00 COTTONWOOD C NF NR ISO																						
11/21/84 0955	5050 5050	5.29 2.90	11.5 90	46.4F 8.0C	7.4	137	--	--	--	--	--	--	--	--	--	--	--	4AF	--	--	--	--
01/16/85 1020	5050 5050	4.90 90	12.7 104	42.8F 8.0C	7.4	149	--	--	--	--	--	--	--	--	--	--	--	1AF	--	--	--	--
03/12/85 1005	5050 5050	30.9A 5A4	11.6 105	50.0F 10.0C	7.6	158	--	--	--	--	--	--	--	--	--	--	--	1AF	--	--	--	--
05/23/85 0930	5050 5050	20.52 11	9.0 108	75.2F 24.0C	8.0	214	21 105 50	7.0 .58 27	11 4.8 23	--	77 1.54	--	11 .31	--	--	--	--	14	--	--	A2 5	0.5 0.7
07/25/85 0950	5050 5050	20.26 1.1	8.5 168	80.6F 27.0C	7.7	287	--	--	--	--	--	--	--	--	--	--	--	2AF	--	--	--	--
09/24/85 0920	5050 5050	20.51 0.7	9.4 103	64.4F 18.0C	7.9	242	--	--	--	--	--	--	--	--	--	--	--	1AF	--	--	--	--
40 3541.00 COTTONWOOD C NF NR GAS PT																						
11/21/84 0935	5050 5050		11.9 102	46.4F 8.0C	7.9	216	--	--	--	--	--	--	--	--	--	--	--	3AF	--	--	--	--
03/12/85 1045	5050 5050		11.3 165	52.7F 11.5C	8.1	292	--	--	--	--	--	--	--	--	--	--	--	1AF	--	--	--	--
05/23/85 0855	5050 5050		9.1 103	69.8F 21.0C	8.2	256	27 1.39 53	9.0 .74 29	11 4.8 16	--	104 2.08	--	10 .28	--	--	--	--	14	--	--	105 1	0.5 0.7
07/25/85 0925	5050 5050		P.2 106	82.4F 28.0C	8.2	330	--	--	--	--	--	--	--	--	--	--	--	1AF	--	--	--	--
09/24/85 0840	5050 5050		8.7 101	71.6F 22.0C	8.2	277	--	--	--	--	--	--	--	--	--	--	--	1AF	--	--	--	--
40 3545.30 COTTONWOOD C SF NR COTTONWOOD																						
11/21/84 0830	5050 5050		11.6 100E	46.4F 8.0C	7.4	216	--	--	--	--	--	--	--	--	--	--	--	7AF	--	--	--	--
01/16/85 0855	5050 5050		12.5 102	42.8F 8.0C	7.9	344	--	--	--	--	--	--	--	--	--	--	--	1AF	--	--	--	--
03/12/85 0945	5050 5050		11.8 59E	50.0F 10.0C	7.9	326	--	--	--	--	--	--	--	--	--	--	--	1AF	--	--	--	--
05/23/85 0740	5050 5050		8.9 163	71.6F 22.0C	8.2	249	29 1.45 55	9.0 .66 25	12 4.4 20	--	99 1.98	--	12 .34	--	--	--	--	24	--	--	106 7	0.5 0.8
09/24/85 0750	5050 5050		8.9 1E	64.4F 18.0C	7.8	340	--	--	--	--	--	--	--	--	--	--	--	2AF	--	--	--	--
40 4321.01 DEEP C & HWY 90E NR VINA																						
11/10/84 1100	5050 5050		12.4 330	46.4F 8.0C	7.4	107	--	--	--	--	--	--	--	--	--	--	--	1AF	--	--	--	--
01/28/85 1725	5050 5050		12.2 168	41.2F 5.0C	7.6	161	11 55 37	6.0 .49 33	10 4.4 30	--	67 1.34	--	3.0 .08	--	--	--	--	11	--	--	52 0	0.8 0.7
03/20/85 1220	5050 5050		12.8 240	50.0F 10.0C	7.7	126	--	--	--	--	--	--	--	--	--	--	--	2AF	--	--	--	--
05/10/85 1215	5050 5050		10.7 144	68.0F 20.0C	8.3	157	11 55 37	6.0 .49 33	10 4.4 30	--	69 1.36	--	4.0 .11	--	--	--	--	11	--	--	52 0	0.8 0.7
07/31/85 1335	5050 5050		11.1 136	78.8F 26.0C	8.4	301	--	--	--	--	--	--	--	--	--	--	--	9AF	--	--	--	--
09/27/85 1215	5050 5050		9.4 90	73.4F 23.0C	7.5	206	--	--	--	--	--	--	--	--	--	--	--	4AF	--	--	--	--
40 4424.50 MILL C NR MO NR LOS MOLINOS																						
10/28/84 0955	5050 5050		11.2 170	55.4F 13.0C	7.4	104	--	--	--	--	--	--	--	--	--	--	--	2AF	--	--	--	--
11/19/84 0845	5050 5050		11.7 7A8	48.2F 9.0C	7.4	140	--	--	--	--	--	--	--	--	--	--	--	1AF	--	--	--	--
12/17/84 1620	5050 5050		13.0 230	63.7F 16.5C	7.4	140	--	--	--	--	--	--	--	--	--	--	--	1AF	--	--	--	--

TABLE C-1 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAR	C+4 O	DO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE CATIONS				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE ANIONS				REMARKS		
						Ca	Mg	Na	K	CaCO3	SCA	CL	NO3	100P	SD2	TH	NH4		ASAR	
AD 4420.50		WILL C HA MO NR LOS MOLINOS										A13360 CONTINUED								
01/22/85	5050		12.6	44.6F	7.7	193	12	5.0	1.6	--	49	--	17	--	--	--	90	1.0		
1035	5050	141	104	7.0C	7.6	195	.60	.41	.76	.98		.48		24	--		2	0.9		5
02/20/85	5050		11.6	46.4F	7.3	170	--	--	--	--	--	--	--	--	--	--				
0915	5050	207	68	7.0C										24F	--					
03/19/85	5050		11.5	51.8F	7.6	167	--	--	--	--	--	--	--	--	--	--				
0955	5050	214	103	11.0C										14F	--					
04/25/85	5050		11.1	51.8F	7.4	144	--	--	--	--	--	--	--	--	--	--				
0845	5050	233	101	11.0C										34F	--					
05/22/85	5050		9.9	71.6F	7.7	131	--	--	--	--	--	--	--	--	--	--				
1315	5050	240	113	22.0C										34F	--					
06/24/85	5050		8.3	69.8F	7.3	196	14	3.0	15	--	51	--	16	--	--	--	56	0.9		
0735	5050	137	93	23.0C	7.8	197	.70	.41	.85	1.02		.44		14	--		5	0.9		5
0810	5050		6.2	75.2F	7.1	214	--	--	--	--	--	--	--	--	--	--				
0910	5050	113	74	24.0C										14F	--					
08/26/85	5050		6.2	73.4F	7.0	239	--	--	--	--	--	--	--	--	--	--				
0955	5050	97	72	23.0C										14F	--					
09/13/85	5050		10.0	58.1F	7.5	237	--	--	--	--	--	--	--	--	--	--				
0730	5050	119	98	34.5C										14F	--					
AD 4520.50		ANTELOPE C NR MO NR RED BLUFF										A1340								
10/26/84	5050		9.2	59.0F	6.2	180	--	--	--	--	--	--	--	--	--	--				
0840	5050	91	15.0C											34F	--					
02/20/85	5050		10.4	50.0F	7.3	152	--	--	--	--	--	--	--	--	--	--				
0855	5050	93	10.0C											14F	--					
AD 4103.00		FEATHER R & NICOLAUS										40542								
10/25/84	5050		10.2	63 F	7.4	90	9.0	4.0	4.0	--	36	--	2.0	--	--	--	56	3.9	0.3	
1200	5050	106	17	7.2	97	.45	.33	.17	.03	.72		.08		14	--		3	0.2		
11/28/84	5050		10.8	50 F	7.2	103	8.0	4.0	5.0	1.1	34	4.0	4.0	1.3	.0	--	75	3.6	0.4	E
1110	5050	24.06	95	10	7.7	103	.40	.34	.22	.03	.76	.08	.11	.02	2	--	48	3	0.2	T
12/20/84	5050		10.8	48 F	7.3	91	9.0	4.0	4.0	--	36	--	2.0	--	--	--	58	3.9	0.3	
1230	5050	93	9	7.2	91	.45	.33	.17	.03	.72		.08		24	--		3	0.2		
01/03/85	5050		11.5	44 F	7.2	91	9.0	4.0	4.0	.8	34	4.0	1.0	.0	.0	--	44	3.9	0.3	
1145	5050	94	7	6.9	91	.45	.33	.17	.02	.72		.08	.03	.00	--	--	44	3	0.2	T
02/19/85	5050		10.3	53 F	7.4	103	10	5.0	5.0	1.2	40	4.0	2.0	.01	.0	--	48	4.6	0.3	
1130	5050	96	12	7.8	104	.50	.41	.22	.03	.80		.08	.06	.01	--	--	52	6	0.3	T
03/28/85	5050		11.0	52 F	7.4	107	10	5.0	5.0	--	44	--	3.0	--	--	--	44	4.6	0.3	
1215	5050	100	11	7.6	104	.50	.41	.22	.03	.88		.08		--	--	--	2	0.3		
04/26/85	5050		10.0	64.5F	7.6	99	12	6.0	5.0	--	41	--	2.0	--	--	--	45	54	0.1	
1215	5050	105	18.0C	7.4	90	.60	.49	.22	.03	.82		.06		54	--		14	0.1		
05/30/85	5050		8.6	62.0F	7.4	106	10	4.0	4.0	--	39	--	4.0	--	--	--	62	42	0.3	
0930	5050	88	36.7C	8.0	94	.50	.33	.17	.03	.78		.11		54	--		3	0.2		
06/26/85	5050		8.0	73.0F	7.4	111	10	4.0	5.0	--	40	--	2.0	--	--	--	42	42	0.3	
1100	5050	92	22.8C	7.9	93	.50	.33	.22	.03	.80		.06		54	--		2	0.3		
07/30/85	5050		8.4	67.6F	7.7	108	9.0	4.0	4.0	--	--	--	1.0	--	--	--	40	39	0.0	
0950	5050	91	19.4C		96	.45	.33	.17	.03			.03		14	--					
08/15/85	5050		7.2	71.2F	7.8	105	9.0	4.0	4.0	--	46	--	2.0	--	--	--	42	39	0.3	
1100	5050	83	21.8C	8.2	101	.45	.33	.22	.03	.92		.05		34	--		3	0.3		
09/19/85	5050		19.62	7.9	63.9F	7.7	110	10	5.0	1.0	48	4.0	2.0	.1	.0	--	68	46	0.3	
0900	5050	83	17.7C	8.2	104	.50	.41	.22	.03	.96		.08	.06	.00	--	--	56	0	0.3	
AD 4010.00		SUTTER RP STATE PP MDL NR NICOLAUS										40700								
10/31/84	5050		8.0	57.2F	7.3	251	--	--	--	--	--	--	--	--	--	--				
0905	5050	0	77	14.0C										34F	--					5
11/30/84	5050		9.0	49.1F	7.3	472	--	--	--	--	--	--	--	--	--	--				
0805	5050	79	9.5C											344F	--					5
12/28/84	5050		12.1	42.8F	7.4	307	--	--	--	--	--	--	--	--	--	--				
0925	5050	0	97	7.0C										44F	--					

TABLE C-1 (CONTINUED)

MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAR	CHL O	PH SAT	TEMP	FIELD		MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER				REM	
					LABORATORY PM	FC	CA	MG	NA	Y	MILLIEQUIVALENTS PER LITER									
											CAPO3	SO4	CL	NO3	T/PA	SO2	TDS SUM	TH MCM		SAP #SAP
40 5010.00 SUTTER RP STATE PP NO1 NR MICCLAUS 407CO CONTINUED																				
01/27/45 1350	5050 5050	0	13.4 112	45.5F 7.5C	8.2	689	--	--	--	--	--	--	--	--	54F	--	--	--	--	\$
03/29/44 0810	5050 5050	0	10.7 57	51.8F 11.0C	8.0	309	--	--	--	--	--	--	--	--	134F	--	--	--	--	\$
05/30/44 0410	5050 5050	0	8.4 88	64.4F 10.0C	7.3	158	--	--	--	--	--	--	--	--	134F	--	--	--	--	\$
06/27/45 0800	5050 5050	0	6.8 82	77.0F 25.0C	7.1	158	--	--	--	--	--	--	--	--	224F	--	--	--	--	\$
07/31/45 1005	5050 5050	0	8.2 91	69.4F 21.0C	7.0	393	--	--	--	--	--	--	--	--	524F	--	--	--	--	\$
08/29/44 0850	5050 5050	0	7.0 76	67.1F 19.5C	8.2	135	11 55 40	6.0 4.49 33	0.0 1.35 23	--	56 1.12	--	5.0 1.14	--	40 324	--	--	52 0	0.5 0.5	\$
09/27/45 0750	5050 5050	0	6.2 87	67.1F 19.5C	7.7	376	--	--	--	--	--	--	--	--	274F	--	--	--	--	\$
40 5020.00 SUTTER RP STATE PP NO2 NR TISCALA 407CO																				
10/31/44 0930	5050 5050	0	9.0 87	57.2F 14.0C	7.5	302	--	--	--	--	--	--	--	--	74F	--	--	--	--	\$
11/30/44 0430	5050 5050	0	8.2 74	51.6F 11.0C	7.4	421	--	--	--	--	--	--	--	--	334F	--	--	--	--	\$
12/24/44 0950	5050 5050	0	10.8 93	48.2F 9.0C	7.9	595	--	--	--	--	--	--	--	--	54F	--	--	--	--	\$
01/28/45 1415	5050 5050	0	8.0 70	49.1F 9.4C	7.8	643	--	--	--	--	--	--	--	--	34F	--	--	--	--	\$
02/26/45 1000	5050 5050	0	9.1 88	57.2F 14.0C	8.1	662	--	--	--	--	--	--	--	--	164F	--	--	--	--	\$
03/29/45 0830	5050 5050	0	10.3 95	53.6F 12.0C	8.2	497	--	--	--	--	--	--	--	--	44F	--	--	--	--	\$
04/30/45 0720	5050 5050	0	8.4 90	60.2F 16.0C	7.4	199	--	--	--	--	--	--	--	--	114F	--	--	--	--	\$
05/30/45 0830	5050 5050	0	7.3 78	66.2F 19.0C	7.5	280	--	--	--	--	--	--	--	--	124F	--	--	--	--	\$
06/27/45 0825	5050 5050	0	8.8 79	73.4F 23.0C	8.3	334	26 1.30 36	20 1.64 46	15 1.65 18	--	165 3.30	--	3.0 1.08	--	41 164	--	--	147 0	0.5 1.0	\$
07/31/45 1030	5050 5050	0	6.6 74	69.4F 21.0C	7.3	608	--	--	--	--	--	--	--	--	404F	--	--	--	--	\$
08/29/45 0910	5050 5050	0	6.9 75	68.0F 20.0C	7.3	331	--	--	--	--	--	--	--	--	124F	--	--	--	--	\$
09/27/45 0820	5050 5050	0	6.4 73	71.6F 22.0C	7.7	451	--	--	--	--	--	--	--	--	114F	--	--	--	--	\$
40 5025.00 SUTTER RP STATE PP NO3 NR TUBA CITY 407CO																				
10/31/44 1005	5050 5050	0	6.5 62	56.3F 13.5C	7.3	260	--	--	--	--	--	--	--	--	94F	--	--	--	--	\$
11/30/44 0605	5050 5050	0	5.7 61	51.8F 11.0C	7.4	477	--	--	--	--	--	--	--	--	274F	--	--	--	--	\$
12/24/44 1330	5050 5050	0	11.5 95	44.6F 7.0C	8.1	622	41 2.05 28	39 3.21 44	44 2.00 24	--	305 6.09	--	20 5.54	--	41 44	--	--	263 0	1.2 2.9	\$
01/27/45 1400	5050 5050	0	12.9 110	47.3F 8.5C	8.2	625	--	--	--	--	--	--	--	--	44F	--	--	--	--	\$
02/24/45 1035	5050 5050	0	9.6 93	57.2F 14.0C	8.2	711	--	--	--	--	--	--	--	--	144F	--	--	--	--	\$
03/29/44 0910	5050 5050	0	10.0 92	42.7F 11.5C	7.7	271	--	--	--	--	--	--	--	--	144F	--	--	--	--	\$
04/30/45 0803	5050 5050	0	7.9 84	68.0F 20.0C	7.4	246	--	--	--	--	--	--	--	--	144F	--	--	--	--	\$

TABLE C-1 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.W. D	ON SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER S F TDS TH SAR				REMARKS		
						CA	MG	NA	K	CAO3	SO4	CL	NO3	TURB	STOZ	SUM	NCH		454R	
AO 4550.00 PEAR R NR WHEATLAND						AO640 CONTINUED														
03/28/44 1100	5050 5050			11.7 164	90 10 F C	7.4 7.6	86 46	9.0 .45 47	4.0 .33 35	4.0 .17 18	-- 31 .62	-- 3.0 .08	-- -- --	-- -- --	54 39 8	19 0 0.2				
04/26/45 1045	5050 5050			10.4 110	84 18 F C	7.4 7.4	101 104	12 .60 49	5.0 .41 33	5.0 .22 16	-- 36 .72	-- 3.0 .08	-- -- 34	-- -- --	66 15	10 0.3 0.3				
05/30/45 0835	5050 5050			8.4 90	66 19 F C	7.6 8.2	124 113	12 .55 47	5.0 .41 35	5.0 .22 16	-- 39 .78	-- 4.0 .11	-- -- 14	-- -- --	88 9	48 0.3 0.3				
06/24/45 0930	5050 5050			8.1 96	76.0 F 24.4 C	7.8 7.9	144 132	12 .60 46	5.0 .49 37	5.0 .22 17	-- 43 .86	-- 4.0 .11	-- -- 34	-- -- --	90 12	34 0.3 0.3				
08/19/45 0945	5050 5050			7.9 88	69.1 F 20.6 C	8.0 8.2	180 169	14 .70 41	6.0 .66 39	7.0 .30 18	1.0 .03 2	16 1.22 71	16 .33 19	.4 .01 1	.0	104 89	68 7	0.4 0.4		
AO 7125.01 AMERICAN R & 16TH ST RR						AO581														
10/10/44 1100	2163 5050			8.4 41	67.5 F 19.7 C	7.1 7.2	42 40	4.0 .20 51	1.0 .08 21	2.0 .23	.6 .05	16 .32	2.0 .04	1.0 .03	-- --	.0 6.2	35 24	14 0	0.2 0.0	E
AO 7140.10 AMERICAN R & SACTO W PLT						AO581														
10/04/44 1130	5050 5050			9.1 90	67.1 F 19.5 C	7.1 7.0	100 42	-- --	-- --	2.0 .04	-- --	-- --	1.0 .03	-- 24	-- --	-- --	-- --	-- --	-- --	
10/23/44 1045	2163 5050			8.8 90	62 F 17 C	7.1	47	--	--	--	--	--	--	--	--	36	--	--	--	
11/08/44 1123	5050 5050			9.3 94	60.8 F 16.0 C	7.0	50 51	--	--	2.0 .04	--	--	2.0 .06	--	114	--	--	--	--	
12/05/44 1120	5050 5050			11.2 101	51.8 F 11.0 C	7.3	80 59	--	--	2.0 .09	--	--	2.0 .06	--	54	--	--	--	--	
02/13/45 1320	5050 5050			11.9 105	50.0 F 10.0 C	7.3	57 63	--	--	2.0 .09	--	--	2.0 .06	--	24	--	--	--	--	
02/20/45 1415	2163 5050			11.9 120	61 F 16 C	7.6	60	--	--	--	--	--	--	--	--	41	--	--	--	
03/13/45 1215	5050 5050			11.2 104	53.8 F 12.0 C	7.3	65 63	--	--	2.0 .09	--	--	2.0 .06	--	54	--	--	--	--	
08/15/45 1540	2163 5050			7.8 88	72.0 F 22.2 C	7.6	65	--	--	--	--	--	--	--	--	34	--	--	--	
09/26/45 1015	5050 5050			7.4 81	68.5 F 20.3 C	7.2 8.1	56 52	5.0 .25 44	2.0 .16 31	2.0 .06 17	.6 .02 4	21 .42 66	2.0 .04 8	1.0 .03 6	.1 .00	.0	35 25	20 0	0.2 0.0	T
AO 7140.01 AMERICAN R NL ME STP 6L PL						AO581														
10/10/44 1100	2163 5050			8.8 44	68 F 19 C	7.1 7.3	46 40	4.0 .20 51	1.0 .08 21	2.0 .23	.6 .05	16 .32	2.0 .04	1.0 .03	-- --	.0 4.3	34 28	14 0	0.2 0.0	ET
AO 7140.00 AMERICAN R NL NJRUS DM						AO581														
10/10/44 1130	2163 4050	2293F		8.3 89	66.5 F 19.1 C	7.0 7.6	54 40	4.0 .20 51	1.0 .04 21	2.0 .05	.6 .02	16 .32	2.0 .04	1.0 .03	-- --	.0 6.4	34 29	14 0	0.2 0.0	N
04/29/45 1145	5050 5050			10.1 187	120 F 74 C	7.3 8.5	80 64	6.0 .30 51	2.0 .16 27	3.0 .13 22	-- 24 .48	-- 2.0 .06	-- -- 14	-- -- --	44 0	23 0.1 0.1				E
09/24/45 0945	5050 4050			7.6 76	69.1 F 20.6 C	7.0 8.3	57 51	2.0 .10 24	2.0 .16 39	3.0 .13 32	.7 .02	23 .44	2.0 .04	1.0 .03	.1 .00	.0	38 25	13 0	0.4 0.0	ET
AO 9220.00 BARBER SLU NR NOTTIER						AO240														
11/13/44 1114	5050 4050		20	9.4 93	59.0 F 19.6 C	8.1 8.2	360 372	19 .09 22	21 1.73 40	36 1.57 36	2.2 .06 1	126 2.36 83	40 .43 20	22 15	4.0 .06 1	.3 2434	-- 221	6 8	1.4 2.3	
11/28/44 1145	5050 5050		50	9.4 86	52.7 F 11.4 C	7.5 8.2	260 264	11 .55 21	4.0 .74 28	30 1.33 45	2.3 .04 2	60 1.18 51	22 .46 14	14 .11 20	9.7 .03	.3 4.4	-- 174	64 144	1.6 1.0	
12/06/44 1200	5053 5050			8.8 63	51.4 F 11.0 C	7.4 7.7	390 390	-- --	-- --	40 1.74	-- --	104 2.08	-- 27	-- .76	-- 1024	-- 7.1	-- --	-- --	-- --	
12/13/44 1030	5050 5050			9.6 77	42.8 F 6.0 C	7.4	400 420	19 .95	17 1.40	43 1.87	-- 44	-- --	30 .85	-- 2434	-- --	-- --	116	0.0		
03/11/45 1100	5050 5050			9.8 64	56.3 F 13.5 C	8.3 8.1	600 631	28 1.40	26 2.14	66 2.87	2.6 .07	182 3.64	56 1.21	49 1.34	2.0 .03	.2 .04	-- 346	177 91	2.2 4.3	

TABLE G-1 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.W. Q	00 SAT	TEMP	FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER				MILLIGRAMS PER LITER PERCENT REACTANCE VALUE				TDS MCM	TH MCM	SAR ASAR	REM				
							CA	MG	NA	K	CACO3	SO4	CL	NO3	TR	SI02	F	TKS								
A1 L 101.3 139.0 LK ARITTON A FV KING																			A23P1							
05/23/83 1930	5050 5050			9.4 112	67.3F 19.0C	8.1	146	10 30	7.0 35	11 52	2.4 0.06	--	2.0 0.04	3.0 0.04	--	.1 24F	--			94	0.0					
09/20/83 1145	5050 5050			10.3 114	60.8F 16.0C	8.2	167	11 35	7.0 58	12 52	2.4 0.06	--	3.0 0.06	3.0 0.04	--	.1 24F	--			96	0.0	5				
A1 R 102.8 159.1 IRON CH RES																			A2343							
05/23/83 1030	5050 5050			9.2 104	62.8F 17.1C	7.4	86	8.0 41	4.0 33	5.0 22	1.3 0.03	--	2.0 0.04	1.0 0.03	--	.0 14F	--			36	0.0	3				
09/20/83 0915	5050 5050			10.5 108	54.5F 12.5C	7.7	94	8.0 40	4.0 33	5.0 22	1.4 0.04	--	2.0 0.04	1.0 0.03	--	.0 14F	--			36	0.0	5				
A1 1020.00 PIT R MR MONTGOMERY C																			A2040							
11/28/84 0900	5050 5050	7800		11.5 90	45.5F 7.5C	7.3	145	--	--	--	--	--	--	--	--	94	--			102						
01/24/85 1205	5050 5050	7300		13.0 111	44.6F 7.0C	7.9	148	--	--	--	--	--	--	--	--	24F	--									
03/13/83 1000	5050 5050	6500		11.6 101	46.4F 8.0C	7.7	152	--	--	--	--	--	--	--	--	--	--									
05/08/83 0850	5050 5050	5000		10.4 105	58.1F 14.5C	8.1	155	11 35	6.0 49	12 52	--	67 1.34	--	3.0 0.04	--	.0 54	--			147	52 0	0.7 0.8				
07/10/83 0930	5050 5050	4100		9.5 107	67.1F 19.5C	8.2	147	--	--	--	--	--	--	--	--	24F	--									
09/11/83 0915	5050 5050	4600		9.6 100	80.8F 16.0C	7.7	143	--	--	--	--	--	--	--	--	14	--			105						
A1 1680.00 PIT R MR CANBY																			A23D4							
01/24/85 0930	5050 5050	2.88 149	12.8 101	32.0F 0.0C	8.1	255	--	--	--	--	--	--	--	--	--	94F	--									
03/13/83 1225	5050 5050	3.48 389	7.4 70	44.6F 7.0C	7.7	184	--	--	--	--	--	--	--	--	--	354F	--									
05/08/83 0630	5050 5050	2.68 91	6.9 70	59.0F 15.0C	8.0	242	18 90	8.0 46	22 0.06	--	--	104 2.08	--	6.0 0.17	--	.2 214	--			78 0	1.1 3.6					
07/10/83 1225	5050 5050	2.62 76	8.4 118	77.0F 25.5C	8.4	270	--	--	--	--	--	--	--	--	--	234F	--					5				
09/18/83 1205	5050 5050	2.74 121	9.0 90	55.4F 13.0C	8.0	291	--	--	--	--	--	--	--	--	--	324F	--									
A1 4400.00 PIT R SF MR LIKELY																			A23E2							
05/07/83 1445	5050 5050	3.21 149	9.2 100	53.6F 12.0C	8.4	84	--	--	--	--	--	--	--	--	--	74F	--									
09/13/83 1315	5050 5050	2.11 33	9.9 116	55.4F 13.0C	8.2	120	11 43	4.0 33	9.0 26	--	--	61 1.22	--	2.0 0.06	--	.0 44	--			44 0	0.6 0.6					
A2 L 043.2 225.0 5HASTA LK A DAM																			A2040							
10/24/84 0930	5050 5050		7.0		7.0	132	11 41	5.0 30	8.0 41	1.5 0.04	1.3 0.04	--	4.0 0.08	2.0 0.06	--	.0 74F	--			0.0						
10/24/84 0930	5050 5050		8.2 86	61.5F 16.4C	7.4	126	10 40	5.0 30	7.0 41	1.4 0.06	1.4 0.04	--	3.0 0.06	2.0 0.04	--	.0 14F	--			0.0		5				
05/24/85 0850	5050 5050		8.7 100	69.8F 21.0C	7.9	115	10 40	5.0 33	7.0 24	1.2 0.03	1.2 0.02	--	4.0 0.04	2.0 0.06	--	.0 14F	--			46	0.0	5				
09/17/85 0400	5050 5050		8.8 100	68.5F 20.3C	7.6	132	11 43	5.0 30	8.0 41	1.4 0.04	1.4 0.03	--	4.0 0.08	2.0 0.06	--	.0 14F	--			48	0.0	5				
A2 L 044.3 227.3 5HASTA LK A LITTLE SOUW C INLET																			A2040							
10/18/84 1100	5050 5050		8.3 90	64.0F 17.8C	7.3	126	10 40	5.0 33	7.0 41	1.3 0.03	1.3 0.03	--	3.0 0.10	2.0 0.06	--	.0 14F	--			0.0		5				
10/18/84 1100	5050 5050		8.1 87	63.5F 17.5C	7.3	125	10 40	5.0 33	7.0 41	1.3 0.03	1.3 0.03	--	4.0 0.12	2.0 0.04	--	.0 14F	--			0.0						

TABLE C-1 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER L&R	G.W. C	DD F&T	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN					MILLIGRAMS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER				SAP	BEM
						CA	MG	NA	K	CL	SO4	NO3	TPS	TH	ASAR					
42 L 044.9 212.1 SHASTA LK PIT PAR JONES VALLEY A2040																				
10/15/84	5050		0.0	90.1F	6.8	142	13	5.0	8.0	1.4	--	3.0	2.0	--	.0	--		0.0		
	4050			94.9C			.05	.41	.35	.04		.06	.00		.04F	--			\$	
		230					.45	.28	.24	.3										
10/15/84	5050		7.7	63.9F	7.3	120	10	5.0	7.0	1.4	--	2.0	2.0	--	.0	--		0.0		
0845	4050		.83	17.7C			.50	.41	.30	.04		.04	.06		.24F	--			\$	
		0					.40	.33	.24	.3										
42 L 045.4 224.5 SHASTA LK LITTLE RACHONE C INLET A2040																				
10/17/84	5050		7.9	62.6F	7.3	124	10	5.0	7.0	1.4	--	4.0	2.0	--	.0	--		0.0		
1100	5050		.84	17.0C			.50	.41	.30	.04		.08	.08		.18F	--			\$	
		0					.40	.33	.24	.3										
10/17/84	5050		5.4	59.9F	7.1	124	10	5.0	7.0	1.4	--	4.0	2.0	--	.0	--		0.0		
1100	4050		.88	14.5C			.50	.41	.30	.04		.08	.06		.24F	--			\$	
		98					.40	.33	.24	.3										
42 L 044.4 212.0 SHASTA LK SQUAW C 4L TINE C A2040																				
10/15/84	5040		0.5	60.5F	6.8	144	16	4.0	6.0	1.0	--	5.0	1.0	--	.0	--		0.0		
1100	5050		.5	9.7C			.80	.33	.26	.03		.10	.03		.38F	--			\$	
		226					.96	.23	.19	.2										
10/15/84	5050		7.8	63.9F	7.3	131	11	5.0	7.0	1.3	--	4.0	2.0	--	.0	--		0.0		
1100	4050		.84	17.7C			.55	.41	.30	.03		.08	.06		.14F	--			\$	
		0					.43	.32	.23	.2										
42 L 044.4 217.6 SHASTA LK MCCLINNIN R ARM A2040																				
10/17/84	5050		8.1	62.4F	7.4	125	12	5.0	7.0	1.4	--	4.0	2.0	--	.0	--		0.0		
0830	5050		.86	16.9C			.60	.41	.30	.04		.08	.06		.14F	--			\$	
		0					.44	.30	.22	.3										
10/17/84	5050		3.7	42.8F	7.0	136	11	4.0	7.0	1.3	--	4.0	2.0	--	.0	--		0.0		
0830	5050		.31	6.0C			.55	.33	.30	.03		.08	.06		.74F	--			\$	
		208					.45	.27	.25	.2										
42 L 044.5 222.8 SHASTA LK SACRAMENTO R ARM A2440																				
10/14/84	4050		8.1	61.7F	7.3	127	10	5.0	7.0	1.4	--	3.0	2.0	--	.0	--		0.0		
0830	5050		.85	16.5C			.50	.41	.30	.04		.06	.06		.14F	--			\$	
		0					.40	.33	.24	.3										
10/18/84	5050		4.1	44.2F	6.7	133	9.0	5.0	6.0	1.0	--	3.0	2.0	--	.0	--		0.0		
0830	5050		.35	6.8C			.45	.41	.26	.03		.06	.06		.14F	--			\$	
		242					.39	.36	.23	.3										
42 L 116.8 219.7 LV SISKIYOU NR RT SHASTA A2182																				
04/22/85	5050		9.3	62.6F	7.5	90	3.0	8.0	3.0	.4	--	2.0	1.0	--	.0	--		40 0.0		
1645	5050		.167	17.0C			.15	.66	.13	.01		.04	.03		.14F	--			\$	
		0					.16	.69	.14	.1										
09/10/85	5050		9.3	62.2F	7.8	127	5.0	10	6.0	1.0	--	2.0	2.0	--	.0	--		34 0.0		
1440	5050		.106	16.8C			.25	.82	.26	.03		.04	.06		.14F	--			\$	
		0					.18	.60	.14	.2										
42 R 107.9 204.2 MCCLINNIN RES & RM A2243																				
05/23/85	5050		9.8	59.4F	7.9	92	10	4.0	6.0	1.5	--	1.0	1.0	--	.0	--		42 0.0		
0615	5050		.109	15.2C			.50	.33	.26	.04		.02	.03		.14F	--			\$	
		0					.44	.29	.23	.4										
09/20/85	5050		11.4	51.1F	7.9	97	8.0	4.0	5.0	1.4	--	2.0	1.0	--	.0	--		36 0.0		
0715	5050		.114	19.6C			.40	.33	.22	.04		.04	.03		.18F	--			\$	
		0					.40	.33	.22	.4										
42 0130.06 SQUAW C L & SHASTA LV A2040																				
10/24/84	5050		11.0	50.0F	3.8	218	--	--	--	--	--	--	--	--	--	--				
0830	5050		.20F	101 10.0C											.138F	--				
11/21/84	5050		11.8	46.4F	4.8	67	--	--	--	--	--	--	--	--	--	--				
1110	5050		.103	4.0C											.58F	--				
12/18/84	5050		13.2	41.0F	4.5	78	--	--	--	--	--	--	--	--	--	--				
1315	4050		.74F	107 5.0C											.54F	--				
01/16/85	5050		12.0	44.6F	4.5	100	6.0	2.0	4.0	--	C	--	1.0	--	.0	--		23 0.0		
1700	5050		.50E	103 7.0C			.30	.16	.17	--	.00	--	.03	--	.14	--		23 0.0	\$	
							.48	.25	.27											
02/14/85	5050		11.7	44.6F	4.7	108	--	--	--	--	--	--	--	--	--	--				
1050	4050		.120E	100 7.0C											.114F	--				
03/12/88	5050		11.7	48.2F	4.3	98	--	--	--	--	--	--	--	--	--	--				
1140	5050		.10E	105 9.0C											.04F	--				
04/17/88	5050		10.4	55.4F	4.5	113	9.0	3.0	4.0	--	C	--	1.0	--	.0	--		32 0.0		
1020	5050		.24F	162 13.0C			.40	.24	.17	--	.00	--	.03	--	.104	--		33 0.0		
							.40	.30	.21										\$	
05/23/85	5050		9.1	66.2F	4.1	154	8.0	3.0	4.0	--	0	--	1.0	--	.0	--		32 0.0		
1220	5050		.24F	161 14.0C			.40	.25	.17	--	.00	--	.03	--	.44	--		33 0.0	\$	
							.40	.30	.21											
06/14/85	5050		9.1	64.0F	4.0	162	--	--	--	--	--	--	--	--	--	--				
0849	5050		.103	20.0C											.98F	--				
07/25/88	4050		8.0	77.9F	3.8	251	10	6.0	5.0	--	0	--	1.0	--	.0	--		50 0.0		
1130	5050		.9E	106 25.5C			.50	.40	.22	--	.00	--	.03	--	.14	--		50 0.0	\$	
							.41	.40	.17											

TABLE C-1 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATERS

DATE TIME	SAMPLER L&P	G+H Q	NO SAT	TEMP	FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER PERCENT EQUIVALENTS PER LITER				MILLIGRAMS PER LITER							REM
							CA	MG	NA	K	CACF3	SO4	CL	NO3	TJRA	SI02	9	F	TMS	TH	SAR	
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TABLE C-1 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLED LAB	G.P. O	OD SAT	TEMP	FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER								PER
							CA	MR	NA	K	CaCO3	SO4	CL	NO3	TUR	SIN2	TDS SIM	TH MCM	SAR	ASAR			
A2 1300.00 SACRAMENTO R A DELTA A2000 CONTINUED																							
09/13/85 0900	5050 5050	4.35 24.4	10.1 90	55.4F 19.0C	7.9	150	--	--	--	--	--	--	--	--	--	--	24F	--	--	--	--	--	--
A2 2350.00 MCCLLOUD R AN SHASTA LK A2241																							
10/23/84 0A30	5050 5050	10.6 504	51.4F 11.0C	8.0 4.0	205 204	33 1.65	3.0 80	2.25 12	4.0 17	--	95 1.90	--	1.0 .03	--	4.0 24	--	--	--	95 0	0.2 0.3	--	--	S
11/26/84 1010	5050 5050	11.9 706	46.4F 10.0C	7.6	142	--	--	--	--	--	--	--	--	--	--	--	24F	--	--	--	--	--	--
12/17/84 1535	5050 5050	12.5 512	41.0F 5.0C	8.2 7.4	116 115	15 175	3.0 25	4.0 17	--	49 1.98	--	1.0 .03	--	4.0 14	--	--	--	50 1	0.2 0.2	--	--	--	S
01/08/85 0935	5050 5050	12.5 367	42.8F 10.0C	8.2	122	--	--	--	--	--	--	--	--	--	--	--	14F	--	--	--	--	--	S
02/14/85 0925	5050 5050	12.0 386	42.8F 6.0C	7.8	120	--	--	--	--	--	--	--	--	--	--	--	14F	--	--	--	--	--	S
03/12/85 0925	5050 5050	12.3 434	44.6F 10.5C	7.5	126	--	--	--	--	--	--	--	--	--	--	--	14F	--	--	--	--	--	S
04/15/85 1015	5050 5050	10.5 410	51.8F 11.0C	7.9	123	--	--	--	--	--	--	--	--	--	--	--	24F	--	--	--	--	--	S
05/09/85 0830	5050 5050	9.9 314	51.8F 11.0C	7.9	128	--	--	--	--	--	--	--	--	--	--	--	24F	--	--	--	--	--	S
06/13/85 0745	5050 5050	9.6 292	62.6F 17.0C	7.9 7.4	117 120	30 35	7.0 41	8.0 24	--	56 1.32	--	4.0 .11	--	4.1 14	--	--	--	94 0	0.3 0.3	--	--	--	S
07/09/85 0920	5050 5050	9.6 266	62.6F 17.0C	7.9	126	--	--	--	--	--	--	--	--	--	--	--	24F	--	--	--	--	--	S
08/19/85 1010	5050 5050	10.2 266	59.0F 15.0C	7.9	116	--	--	--	--	--	--	--	--	--	--	--	24F	--	--	--	--	--	S
09/10/85 0800	5050 5050	10.8 336	51.8F 11.0C	7.9	118	--	--	--	--	--	--	--	--	--	--	--	24F	--	--	--	--	--	S
A2 4100.00 SOUW C AN SHASTA LK A2280																							
10/24/84 1100	5050 5050	12.6 112	47.5F 6.0C	7.3	199	39 1.95	4.0 33	4.0 17	.4 .01	--	--	37 .35	1.0 .03	--	4.0 14F	--	--	114	0.0	--	--	--	S
A3 R 016.1 232.4 WHISKEYTOWN RES A OM A1903																							
05/21/85 0930	5050 5050	9.2 0	62.6F 17.0C	7.4	81	5.0 25	6.0 49	2.0 .09	.4 .01	--	--	3.0 .06	1.0 .03	--	4.0 14F	--	--	37	0.0	--	--	--	S
09/23/85 0800	5050 5050	8.9 0	64.0F 17.0C	7.4	87	5.0 25	6.0 49	3.0 .13	.3 .01	--	--	2.0 .04	1.0 .03	--	4.0 24F	--	--	37	0.0	--	--	--	S
A3 1110.00 STONY C RL BLACK BUTTE OM HP OPLAND A1340																							
10/26/84 0935	5050 5050	2.54 56	10.0 100	59.0F 15.0C	6.1	396	--	--	--	--	--	--	--	--	--	--	244F	--	--	--	--	--	S
11/10/84 0945	5050 5050	2.29 31	10.8 90	51.8F 11.0C	6.1	364	--	--	--	--	--	--	--	--	--	--	344F	--	--	--	--	--	S
12/17/84 1300	5050 5050	5.34 972	12.6 110	48.2F 9.0C	7.9	326	--	--	--	--	--	--	--	--	--	--	224F	--	--	--	--	--	S
01/22/85 1114	5050 5050	3.49 52	12.5 107	46.4F 5.0C	6.1	330	--	--	--	--	--	--	--	--	--	--	44F	--	--	--	--	--	S
02/20/85 1003	5050 5050	2.52 46	11.9 101	46.4F 4.0C	6.1	316	--	--	--	--	--	--	--	--	--	--	214F	--	--	--	--	--	S
03/19/85 1040	5050 5050	2.28 26	11.5 106	52.7F 11.5C	7.9	330	--	--	--	--	--	--	--	--	--	--	114F	--	--	--	--	--	S
04/25/85 0930	5050 5050	3.16 123	10.9 104	55.4F 13.0C	8.0	352	--	--	--	--	--	--	--	--	--	--	214F	--	--	--	--	--	S
05/22/85 1405	5050 5050	7.99 98	10.2 117	71.6F 22.0C	4.1 7.9	320 338	33 1.65	13 1.07	15 .05	--	118 2.36	--	21 .59	--	4.1 314	--	--	136 16	0.6 1.0	--	--	--	S

TABLE C-1 (CONTINUED)

MINERAL ANALYSES OF SURFACE WATER

TIME	SAMPLE LAB	G.W. G	ON DAY	TEMP LABORATORY	FIELD PH	EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER				MILLIGRAMS PER LITER				REMARKS
							Ca	Mg	Na	K	PERCENT REACTANCE VALUE		TDS		TDS				
											CaCO3	SiO2	SiO2	SiO2	SiO2	SiO2			
A3 1110.00 STONY C SL BLACK BUTTE OP AR COLAND A13A0 CONTINUED																			
06/24/85 0905	5050 5050	4.48 193	9.1 105	71.6F 22.0C	8.1	345	--	--	--	--	--	--	--	--	--	--	--		
07/23/85 0915	5050 5050	3.43 184	8.5 103	77.0F 25.0C	8.0	366	--	--	--	--	--	--	--	--	--	--	--		
08/26/85 0850	5050 5050	2.79 80	8.2 98	75.2F 24.0C	7.9	372	--	--	--	--	--	--	--	--	--	--	--		
09/13/85 0840	5050 5050	3.30 32	8.0 98	68.0F 20.0C	8.1 8.6	362 366	33 1.65	1.8 1.48	20 8.7	-- 22	151 3.02	-- 20	-- 1.56	-- 100A	-- 1.3	-- 1.7	-- 0.7	5	
A3 1253.00 STONY C AR GRINDSTONE C A1401																			
10/26/84 1020	5050 5050	11.6 2E	66.2F 19.0C	8.1	419	--	--	--	--	--	--	--	--	--	--	--	--		
11/19/84 1030	5050 5050	130E	11.1 99	49.1F 9.5C	7.8 7.7	191 196	25 1.25	4.0 3.33	6.6 2.24	-- 14	58 1.16	-- 5.0	-- 1.14	-- 24A	-- 1.0	-- 7.9	-- 0.3	6	
12/17/84 1410	5050 5050	600E	12.4 110	49.1F 9.5C	8.3	299	--	--	--	--	--	--	--	--	--	--	--		
01/22/85 1200	5050 5050	30E	12.5 113	50.0F 10.0C	8.2	460	--	--	--	--	--	--	--	--	--	--	--		
02/20/85 1055	5050 5050	70E	11.6 104	50.0F 10.0C	7.9	214	--	--	--	--	--	--	--	--	--	--	--		
03/19/85 1130	5050 5050	30E	11.5 117	59.9F 15.5C	8.3	506	--	--	--	--	--	--	--	--	--	--	--		
04/25/85 1025	5050 5050	40E	11.7 118	59.0F 15.0C	8.3	381	--	--	--	--	--	--	--	--	--	--	--		
05/22/85 1455	5050 5050	100E	9.4 108	70.7F 21.5C	8.4 8.1	299 324	29 1.45	12 9.9	16 7.0	-- 22	115 2.30	-- 21	-- 1.59	-- 15A	-- 1.4	-- 122	-- 7	5	
06/24/85 1000	5050 5050	45E	9.1 105	71.6F 22.0C	8.2	361	--	--	--	--	--	--	--	--	--	--	--		
07/23/85 1000	5050 5050	200E	8.9 111	78.8F 26.0C	8.2	369	--	--	--	--	--	--	--	--	--	--	--		
08/26/85 0940	5050 5050	150E	9.3 116	73.4F 23.0C	8.6	370	--	--	--	--	--	--	--	--	--	--	--		
09/13/85 0930	5050 5050	5E	10.7 117	66.2F 19.0C	8.3 8.6	393 400	31 1.35	23 1.89	21 9.1	-- 21	166 3.92	-- 20	-- 1.56	-- 23A	-- 1.3	-- 172	-- 6	5	
A3 1302.00 GRINDSTONE C NR ELK C A1401																			
10/26/84 1015	5050 5050	5E	9.8 107	66.2F 19.0C	8.1	530	--	--	--	--	--	--	--	--	--	--	--		
11/19/84 1015	5050 5050	100E	11.5 101	48.2F 9.0C	7.6	187	--	--	--	--	--	--	--	--	--	--	--		
12/17/84 1340	5050 5050	360E	11.9 101	45.5F 7.5C	7.6	208	--	--	--	--	--	--	--	--	--	--	--		
01/22/85 1145	5050 5050	100E	12.3 104	45.5F 7.5C	8.0	260	--	--	--	--	--	--	--	--	--	--	--		
02/20/85 1045	5050 5050	125E	11.5 98	46.4F 8.0C	7.4	201	--	--	--	--	--	--	--	--	--	--	--		
03/19/85 1120	5050 5050	40E	10.5 104	57.2F 14.0C	8.0 8.3	248 259	32 1.60	6.0 4.49	9.0 3.33	-- 16	83 1.86	-- 7.0	-- 1.20	-- 24	-- 1.1	-- 105	-- 22	5	
04/25/85 1010	5050 5050	60E	10.5 101	55.4F 13.0C	8.0	204	--	--	--	--	--	--	--	--	--	--	--		
05/22/85 1450	5050 5050	25E	8.3 106	81.5F 27.5C	8.2	230	--	--	--	--	--	--	--	--	--	--	--		
06/24/85 0950	5050 5050	10E	9.1 107	73.4F 23.0C	8.2	310	--	--	--	--	--	--	--	--	--	--	--		
07/23/85 1010	5050 5050	1F	9.6 128	84.2F 29.0C	8.4	337	--	--	--	--	--	--	--	--	--	--	--		

TABLE C-1 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAR	G.W. Q	ON SAT	TEMP	FIELD		MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER				REM
					LABORATORY PH	EC	CA	MG	NA	K	CACT3	SCA	CL	NOS	T108	S102			
A3		1302.00	GRINDSTONE C NR ELK C										A1441 CONTINUED						
08/26/85 0930	5050 5050	1E	9.8 120	77.0F 25.0C	8.1	367	--	--	--	--	--	--	--	--	--	3AF	--		
09/13/85 0923	5050 5050	2F	9.8 109	88.0F 20.0C	8.2	414	--	--	--	--	--	--	--	--	--	1AF	--		
A3		3110.00	ELDER C NR PASSENTA										A1681						
04/29/85 1135	5050 5050	4A	10.5 164	57.2F 14.0C	8.2	275	--	--	--	--	--	--	--	--	--	2AF	--		
09/13/85 1045	5050 5050	1.20 2.3	10.6 117	67.1F 19.5C	8.4 8.5	700 815	43 2.15	32 34	70 39	--	164 3.26	--	1.2 4.0	--	1.1 14	--	239 79	2.0 4.0	
A3		A130.00	CLEAR C NR IGD										A1740						
05/23/85 1025	5050 5050	2.77 54	9.6 55	57.2F 14.0C	7.4 6.7	221 220	1.05 1.05	9.0 7.4	0.0 3.9	1.4 0.4	90 1.80	10 10	7.0 9	1.1 9	1.0 14	--	135 111	90 0	0.4 0.4
09/24/85 1000	5050 5050	2.62 50	10.5 108	60.8F 16.0C	7.5 8.2	103 101	6.0 3.0	6.0 4.9	5.0 2.2	--	42 8.4	--	4.0 1.1	--	1.0 14	--	40 0	0.3 0.3	
A4		1110.00	RUTTE CR NR CHICO										A0700						
11/30/84 1010	5050 5050	2.30 424	12.7 105	44.6F 7.0C	7.3	90	--	--	--	--	--	--	--	--	--	1AF	--		
01/28/85 1630	5050 5050	1.8* 154	12.4 98	41.0F 5.0C	7.8 8.1	127 116	11 5.5	5.0 4.1	5.0 2.2	--	53 1.06	--	1.0 0.3	--	1.0 24	--	48 0	0.3 0.3	
03/29/85 1100	5050 5050	2.26 412	12.5 101	42.4F 6.0C	7.1 8.4	96 90	12 6.0	6.0 4.9	4.0 1.7	--	46 9.2	--	1.0 0.3	--	1.0 14	--	54 9	0.2 0.2	
05/30/85 1035	5050 5050	1.04 2.1	11.1 53	13.0F 10.5C	7.8	93	--	--	--	--	--	--	--	--	--	5AF	--		
07/31/85 1220	5050 5050	1.40 125	9.7 167	68.0F 20.0C	8.2	105	--	--	--	--	--	--	--	--	--	1AF	--		
09/27/85 1015	5050 5050	0.43 98	10.1 103	60.8F 16.0C	7.9	131	--	--	--	--	--	--	--	--	--	5AF	--		
A4		2111.00	CHICO C NR CHICO										A1380						
01/28/85 1645	5050 5050	4.4 117	11.1 117	44.6F 7.0C	8.0	194	--	--	--	--	--	--	--	--	--	2AF	--		
03/29/85 1130	5050 5050	1.73 136	12.8 109	40.4F 6.0C	7.5 8.8	129 134	13 6.5	7.0 5.0	6.0 3.5	--	56 1.12	--	3.0 0.8	--	1.1 14	--	62 6	0.4 0.5	
05/30/85 1120	5050 5050	0.67 29	10.7 55	17.0F 4.3C	8.3	204	--	--	--	--	--	--	--	--	--	3AF	--		
07/31/85 1254	5050 5050	0.5 21	9.1 164	73.4F 23.0F	8.2	400	--	--	--	--	--	--	--	--	--	11AF	--		
09/27/85 1100	5050 5050	0.67 23	9.8 106	66.2F 19.0C	8.2	227	--	--	--	--	--	--	--	--	--	2AF	--		
A4		A050.01	RAYNES C NR BEN BLUFF										A1740						
10/26/84 0903	5050 5050	4.6 40E	9.7 47	59.3F 15.0C	7.3	217	--	--	--	--	--	--	--	--	--	2AF	--		
03/19/85 0910	5050 5050	2.8E	10.4 162	45.4F 13.0C	7.3 8.3	171 176	12 34	9.0 3.7	12 2.6	--	76 1.52	--	6.0 1.7	--	1.1 14	--	63 0	0.7 0.8	
A4		7110.00	PATTER C NR COTTONWOOD										A1740						
10/26/84 1630	5050 5050	1.41 343	11.4 167	53.4F 12.0C	7.7 7.8	142 144	10 34	7.0 3.9	9.0 2.7	--	66 1.32	--	3.0 0.8	--	1.0 24	--	54 0	0.9 0.6	
02/14/85 1220	5050 5050	1.44 344	11.3 101	50.0F 10.0C	7.7 8.1	142 143	10 35	7.0 5.5	9.0 2.4	--	65 1.30	--	2.0 0.8	--	1.0 24	--	54 0	0.5 0.5	
A4		8111.00	COW C NR FALE CEDRO										A1740						
05/23/85 1304	5050 5050	12.4	9.7 126	74.4F 24.0F	8.1 7.0	133 134	12 6.0	5.0 4.1	7.0 3.0	--	47 1.14	--	4.0 1.1	--	1.0 24	--	50 0	0.4 0.4	
09/24/85 1214	5050 5050	4.4	10.4 122	71.0F 22.0C	8.3 8.3	177 174	15 7.4	7.0 5.8	16 2.5	--	72 1.44	--	4.0 2.3	--	1.1 24	--	66 0	0.5 0.7	

TABLE C-1 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAR	DATE O	NO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER PERCENT REACTANCE VALUE CACC3 504 CL NOS				MILLIGRAMS PER LITER R F TOS TH SAR DEM			
						CA	MG	NA	K								
AR L 000.7 241.7 CLEAR LK 23 CAYS ARM CL4																	
A0402 CONTINUED																	
05/30/85	5050	047	05.8F	R1	246	20	14	10	1.5	--	--	--	--	108	0.0		
1140	5050	108	16.8F			1.00	1.15	.44	.04								
		0				34	44	17	2								
06/27/85	4040	7.8	77.0F	7.8	254	21	15	10	1.8	--	--	--	--	114	0.0		
1215	4040	06	24.0C			1.05	1.23	.44	.05								
		0				38	44	17	2								
07/24/85	5050	8.0	80.6F	8.5	258	22	14	11	1.7	--	--	--	--	144	113	0.0	
1415	5050	116	27.0C			1.10	1.15	.48	.04								
		0				40	42	17	2								
08/26/85	5050	11.7	76.1F	8.3	260	23	15	11	1.9	--	--	--	--	119	0.0		
1045	5050	145	24.5C			1.15	1.23	.48	.05								
		0				40	42	16	2								
09/26/85	5050	13.7	71.6F	8.9	260	24	16	12	2.0	--	--	--	--	126	0.0		
0015	5050	143	22.0C			1.20	1.32	.52	.05								
		0				40	43	17	2								
AR L 002.7 254.7 1 CLEAR LK A LAKEPORT																	
A0402																	
10/25/84	5050	10.1	86.2F	8.4	235	--	--	--	--	--	--	--	--				
1705	5050	214	19.0C														
12/06/84	5050	10.7	86.4F	7.7	227	--	--	--	--	--	--	--	--				
0825	5050	94	8.0C														
02/07/85	5050	10.2	86.4F	7.2	225	18	12	9.0	--	101	--	4.0	--	94	0.4		
0705	5050	90	8.0C	8.1	233	.90	.09	.35	.05	2.02		.11	--	0	0.6		
						30	43	17									
04/04/85	5050	11.8	82.6F	8.3	220	--	--	--	--	--	--	--	--				
1440	5050	127	17.0C														
06/07/85	5050	8.0	86.2F	7.3	237	--	--	--	--	--	--	--	--				
0645	5050	77	19.0C														
08/08/85	5050	8.6	73.4F	7.6	265	--	--	--	--	--	--	--	--				
0715	5050	80	23.0C														
AR L 003.8 251.9 CLEAR LK 15-HIP ARM CL-1																	
A0402																	
10/23/84	5050	9.9	57.4F	7.9	210	20	13	9.0	1.8	--	--	--	--	104	0.0		
1015	5050	100	14.1C			1.00	1.07	.35	.05								
		0				40	43	16	2								
11/20/84	5050	10.5	47.3F	7.9	220	20	13	9.0	1.6	--	--	--	--	104	0.0		
1200	5050	94	8.0C			1.00	1.07	.35	.04								
		0				40	43	16	2								
12/18/84	5050	9.8	45.0F	7.9	225	19	13	9.0	1.7	--	--	--	--	101	0.0		
1030	4040	8.9	7.2C			.95	1.07	.35	.04								
		0				30	44	16	2								
01/24/85	5050	9.9	45.5F	7.5	231	19	13	9.0	1.5	--	--	--	--	101	0.0		
1230	5050	86	7.5C			.95	1.07	.35	.04								
		0				30	44	16	2								
02/21/85	5050	9.6	46.2F	7.5	217	18	13	9.0	1.5	--	--	--	--	98	0.0		
1230	5050	84	7.9C			.90	1.07	.35	.04								
		0				38	45	16	2								
03/19/85	5050	9.6	51.8F	7.6	211	19	13	9.0	1.5	--	--	--	--	130	101	0.0	
1015	5050	91	11.0C			.95	1.07	.35	.04								
		0				30	44	16	2								
04/24/85	5050	9.3	57.9F	8.0	232	19	13	9.0	1.6	--	--	--	--	101	0.0		
1045	5050	95	14.4C			.95	1.07	.35	.04								
		0				30	44	16	2								
05/30/85	5050	8.1	67.3F	7.8	224	21	14	10	1.7	--	--	--	--	110	0.0		
1000	5050	92	19.6C			1.05	1.15	.44	.04								
		0				39	43	16	1								
06/27/85	5050	8.6	76.3F	7.4	245	20	14	10	1.7	--	--	--	--	108	0.0		
1000	5050	100	24.6C			1.00	1.15	.44	.04								
		0				38	44	17	2								
07/24/85	5050	8.0	82.3F	8.2	255	22	14	11	1.8	--	--	--	--	144	113	0.0	
1030	5050	105	27.8C			1.10	1.15	.48	.05								
		0				40	41	17	2								
08/24/85	5050	9.6	78.4F	8.2	245	24	15	11	2.0	--	--	--	--	122	0.0		
1115	5050	127	25.8C			1.20	1.23	.48	.05								
		0				41	42	16	2								
09/26/85	5050	9.9	71.4F	8.7	260	24	16	11	2.0	--	--	--	--	126	0.0		
1000	5050	117	21.9C			1.20	1.32	.52	.05								
		0				40	43	16	2								
AR 113.00 CAYE R & RUMSEY																	
A0200																	
04/09/85	5050	11.42	8.4	70	F 8.4	435	24	26	30	--	166	--	26	--	240	167	1.0
1930	5050	05	21	F 8.7	451	1.20	2.14	1.31	1.32								
						26	40	28									
09/24/85	5050	11.13	7.6	87.4F	8.3	200	26	19	22	2.3	154	12	20	.1	260	143	0.8
1945	5050	04	16.7C	8.6	383	1.30	1.86	.54	.06	3.08		.25	.16	.0	195	0	1.5
						34	40	25	2	74		6	14	0			

TABLE C-1 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER L#	G.H. D	DN SAT	TEMP	FIELD LABORATORY PH	MINERAL CONSTITUENTS IN EF	CA	MG	NA	K	MILLIGRAMS PER LITER PERCENT REACTANCE VALUE CACO3	SO4	CI	NO3	0	2	TDS SUM	TH MCM	SAR 650	REP
AR 1250.00 REAR C NR RUMSEY A0490																				
10/25/84 1820	5050 5050	0.31 .0	10.3 109	62.6F 17.0C	6.7 A.7	3120 3140	4.0 .20	124 10.32	49C 21.32	-- 12.63	832 18.64	-- 1A	-- 1A	-- --	1.4 --	-- --	520 0	9.4 26.4	5	
12/06/84 1040	5050 5050	1.56 13	11.4 96	44.6F 7.0C	6.3 A.3	1380	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- 34F	-- --	-- --	-- --	-- --	
02/07/85 0850	5050 5050	0.94 .8	9.5 60	44.6F 7.0C	6.4 A.4	2110	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- 14F	-- --	-- --	-- --	-- --	
04/16/85 1415	5050 5050	1.02 1.5	9.7 109	68.0F 20.0C	6.4 A.4	1710	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- 34F	-- --	-- --	-- --	-- --	
06/07/85 0900	5050 5050	0.64 .5	9.2 111	75.2F 24.0C	6.4 A.4	2140	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- 34F	-- --	-- --	-- --	-- --	
08/08/85 1005	5050 5050	0.38 6A	8.4 9A	71.6F 22.0C	6.8 A.8	3370 3530	1A .90	133 10.94	543 23.62	-- 13.63	882 27.31	-- 701	-- 31	-- --	14.0 0A	-- --	592 0	9.7 24.1	5	
AR 1350.00 CACHE C NR LOWER LK A0401																				
10/25/84 1405	5050 5050	6.7 110	10.0 110	64.4F 16.0C	6.0 7.8	273 273	22 1.10	15 1.23	11 4F	-- 17	124 2.48	-- --	6.0 .17	-- 84	-- --	-- --	117 0	0.4 0.7	5	
12/06/84 0930	5050 5050	6.7 6.0	8.7 76	46.4F 8.0C	7.3 A.3	250	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- 204F	-- --	-- --	-- --	-- --	
02/07/85 0750	5050 5050	1.3 75	9.0 75	42.8F 6.0C	7.1 6.0	279 287	22 1.10	14 1.15	13 .57	-- 20	97 1.04	-- --	8.0 .23	-- 34	-- --	-- --	113 16	0.5 0.8	5	
04/04/85 1730	5050 5050	6E 113	10.1 113	68.0F 20.0C	8.2 A.2	240	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- 194F	-- --	-- --	-- --	-- --	
06/07/85 0740	5050 5050	534 99	8.2 99	73.4F 23.0C	7.7 A.7	263	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- 154F	-- --	-- --	-- --	-- --	
08/08/85 0900	5050 5050	310 90	7.2 90	77.0F 25.0C	7.6 A.6	268	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- 44F	-- --	-- --	-- --	-- --	
AR 1500.00 KELSEY C NR KELSEYVILLE A0404																				
10/04/84 0620	5050 5050	8.6 91	60.8F 16.0C	7.3 A.3	231	12 .60	20 1.64	7C .3C	1.3 .03	-- --	-- --	4.0 .08	3.0 .08	-- --	.0 14F	-- --	-- --	0.0 --	5	
11/07/84 1600	5050 5050	9.4 88	50.9F 10.3C	7.6 A.6	235	14 .70	19 1.56	7C .3C	1.3 .03	-- --	-- --	4.0 .08	4.0 .11	-- --	.0 24F	-- --	113 --	0.0 --	5	
12/05/84 0800	5050 5050	10.5 93	46.4F 8.0C	7.5 A.5	205	12 .60	16 1.32	5C .22	1.0 .03	-- --	-- --	7.0 .15	2.0 .06	-- --	.0 44F	-- --	96 --	0.0 --	5	
01/07/85 1100	5050 5050	11.9 103	44.6F 7.0C	7.6 8.2	260	16 .80	21 1.73	6C .26	1.1 .03	-- --	-- --	7.0 .15	3.0 .08	-- --	.1 24F	-- --	127 --	0.0 --	5	
02/04/85 1140	5050 5050	12.2 99	40.1F 4.5C	7.6 A.6	290	15 .24	25 2.06	7C .3C	1.1 .03	-- --	-- --	7.0 .15	4.0 .11	-- --	.1 04F	-- --	141 --	0.0 --	5	
03/07/85 1100	5050 5050	11.5 97	42.8F 6.0C	7.8 A.8	262	15 .75	23 1.89	6C .26	1.1 .03	-- --	-- --	3.0 .06	6.0 .17	-- --	.0 24F	-- --	132 --	0.0 --	5	
04/03/85 0730	5050 5050	10.0 94	50.9F 10.5C	7.3 A.3	235	14 .90	24 1.97	6C .26	1.3 .03	-- --	-- --	4.0 .12	2.0 .08	-- --	.1 24F	-- --	144 --	0.0 --	5	
05/06/85 1635	5050 5050	6.4 93	44.4F 16.0C	7.9 A.9	320	17 .85	26 2.14	7C .3C	1.1 .03	-- --	-- --	5.0 .10	4.0 .11	-- --	.1 14F	-- --	140 --	0.0 --	5	
06/04/85 1530	5050 5050	8.7 103	70.7F 21.5C	7.0 A.0	310	17 .65	27 2.22	8C .35	1.1 .03	-- --	-- --	4.0 .08	5.0 .14	-- --	.1 14F	-- --	154 --	0.0 --	5	
07/09/85 0955	5050 5050	7.5 91	73.4F 23.0C	7.8 A.8	335	19 .95	31 2.55	6C .35	1.1 .03	-- --	-- --	5.0 .12	4.0 .11	-- --	.1 14F	-- --	175 --	0.0 --	5	
08/06/85 1420	5050 5050	8.0 104	79.7F 26.5C	7.9 A.9	350	19 .95	30 2.47	8C .35	1.1 .03	-- --	-- --	4.0 .08	4.0 .11	-- --	.1 04F	-- --	171 --	0.0 --	5	
09/03/85 1415	5050 5050	8.4 104	75.2F 24.0C	7.8 A.8	332	18 .90	30 2.47	6C .35	1.1 .03	-- --	-- --	4.0 .08	4.0 .11	-- --	.1 24F	-- --	169 --	0.0 --	5	
09/30/85 1400	5050 5050	8.6 100	68.0F 20.5C	7.6 A.6	290	16 .80	25 2.06	8C .35	1.1 .03	-- --	-- --	3.0 .06	4.0 .11	-- --	.1 14F	-- --	143 --	0.0 --	5	

TABLE C-1 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLE LAB	Q.4. O	NO SAT	TEMP	FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER PERCENT REACTANCE VALUE CACO3				MILLIGRAMS PER LITER				REM
							CA	MG	NA	K	SON	CL	NO3	TURB	SiO2	TOX SIM	TM NCH	SAR ASAR	
AR 2050.00 CACHE C NF NR LOWER LAKE AC4C0																			
10/25/84 1445	5050 5050	AE	11.9 129	64.4F 18.0C	8.3	322	--	--	--	--	--	--	--	--	14F	--	--	--	
12/06/84 1000	5050 5050	90E	11.2 100	48.2F 9.0C	7.8	266	--	--	--	--	--	--	--	--	14F	--	--	--	
02/07/85 0920	5050 5050	20E	10.6 92	46.4F 8.0C	7.7	356	--	--	--	--	--	--	--	--	24F	--	--	--	
04/18/85 1310	5050 5050		11.0 110	57.2F 14.0C	8.2	259	--	--	--	--	--	--	--	--	14F	--	--	--	
06/07/85 CP15	5050 5050	75E	10.2 100	55.4F 13.0C	8.0	252	--	--	--	--	--	--	--	--	24F	--	--	--	
08/08/85 0855	5050 5050	75E	10.7		8.1 8.4	250 257	18 6.4	37 90	10 1.40	-- 1.4	317 2.34	-- 1.44	-- 1.23	-- 14	-- 14	-- 14	-- 14	115 0	0.4 0.7
AR 5601.00 KELSEY C AR HIGH VLY C AC404																			
10/04/84 0940	5050 5050		9.5 97	55.4F 13.0C	7.3	120	6.0 30	7.0 58	6.0 26	1.4 0.04	--	2.0 0.04	2.0 0.06	--	0 14F	--	--	0.0	
11/06/84 1400	5050 5050		10.0 97	51.8F 11.0C	7.4	140	9.0 45	9.0 74	6.0 26	1.7 0.04	--	2.0 0.11	4.0 1.1	--	0 14F	--	--	60	0.0
12/04/84 1144	5050 5050		11.0 97	44.6F 7.0C	7.4	135	6.0 28	9.0 52	6.0 26	1.2 0.03	--	6.0 1.12	2.0 0.06	--	0 14F	--	--	37	0.0
01/07/85 1303	5050 5050		9.7 85	43.7F 8.2C	7.3	175	10 20	12 99	6.0 26	1.3 0.03	--	6.0 1.12	3.0 0.08	--	1 24F	--	--	74	0.0
02/04/85 1230	5050 5050		12.0 102	41.9F 5.9C	7.4	181	9.0 45	11 90	7.0 30	1.3 0.03	--	5.0 1.10	4.0 1.11	--	1 14F	--	--	68	0.0
03/07/85 1210	5050 5050		11.7 101	42.6F 6.0C	7.6	165	10 50	12 99	6.0 26	--	--	4.0 0.08	3.0 0.08	--	1 24F	--	--	74	0.0
04/01/85 1145	5050 5050		10.2 102	53.6F 12.0C	7.7	149	10 30	11 54	6.0 26	--	--	7.0 1.15	2.0 0.06	--	1 14F	--	--	70	0.0
05/08/85 1530	5050 5050		9.5 105	62.6F 17.0C	7.7	170	10 50	12 99	7.0 30	--	--	5.0 1.10	3.0 0.08	--	1 14F	--	--	74	0.0
06/04/85 1200	5050 5050		9.1 101	62.6F 17.0C	7.8	160	9.0 45	10 82	6.0 26	--	--	2.0 0.04	3.0 0.08	--	1 14F	--	--	64	0.0
07/09/85 1200	5050 5050		8.8 108	71.6F 22.0C	8.0	150	10 50	9.0 74	6.0 30	--	--	2.0 0.04	2.0 0.06	--	1 24F	--	--	62	0.0
08/06/85 1000	5050 5050		8.5 100	68.0F 20.0C	7.5	147	6.0 40	6.0 66	7.0 30	--	--	2.0 0.04	2.0 0.06	--	1 14F	--	--	53	0.0
09/03/85 1244	5050 5050		9.7 114	68.0F 20.0C	7.5	128	8.0 40	8.0 66	7.0 30	--	--	2.0 0.04	2.0 0.06	--	1 14F	--	--	53	0.0
09/10/85 1130	5050 5050		9.7 103	59.0F 15.0C	7.5	132	7.0 35	7.0 59	6.0 26	--	--	1.0 0.02	3.0 0.08	--	1 14F	--	--	46	0.0
AR 5610.00 HIGH VALLEY C AR KELSEY C AC404																			
10/04/84 0900	5050 5050		7.7 81	58.1F 14.5C	7.4	330	27 1.35	19 1.56	7.0 30	0 0.02	--	4.0 0.08	2.0 0.06	--	1 04F	--	--	0.0	
11/06/84 1400	5050 5050		9.9 97	52.7F 11.5C	7.4	300	32 1.66	16 1.32	6.0 26	0 0.02	--	6.0 1.12	3.0 0.08	--	0 24F	--	--	146	0.0
01/07/85 1240	5050 5050		11.2 94	43.7F 8.5C	8.2	227	23 1.15	13 0.97	5.0 22	0 0.02	--	9.0 1.19	2.0 0.06	--	2 24F	--	--	111	0.0
02/04/85 1230	5050 5050		12.4 106	41.9F 5.9C	7.6	280	20 1.45	13 1.23	6.0 26	0 0.01	--	6.0 1.17	2.0 0.06	--	2 04F	--	--	134	0.0
03/07/85 1230	5050 5050		11.1 101	46.4F 8.0C	7.6	230	24 1.20	12 0.99	5.0 22	--	--	5.0 1.10	2.0 0.06	--	1 24F	--	--	110	0.0
04/01/85 1130	5050 5050		10.0 100	53.6F 12.0C	7.8	188	24 1.20	13 1.07	5.0 22	--	--	7.0 1.15	2.0 0.06	--	2 24F	--	--	114	0.0
04/08/85 1515	5050 5050		9.0 102	64.4F 14.0C	7.7	280	30 1.50	16 1.32	6.0 26	--	--	5.0 1.10	2.0 0.06	--	1 174F	--	--	141	0.0

TABLE C-1 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAR	G.H. G	OG SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER PERCENT REACTANCE VALUE							REM
						CA	MG	NA	K	CaCO3	SO4	CL	NO3	TDS	SiO2	TH	AS40	SAR			
AR 4610.00 HIGH VALLEY C AB KELSEY C ACADA CONTINUED																					
06/04/83 1145	5050 5050		9.0 99	61.7F 18.5C	7.9 305	33 1.65 51	16 1.32 41	6.0 .26 F	--	--	5.0 .10	2.0 .06	--	.1 14F	--			149	0.0		
07/09/83 1130	5050 5050		8.4 100	68.9F 20.5C	7.9 340	38 1.90 49	20 1.64 42	6.0 .35 9	--	--	6.0 .12	2.0 .06	--	.2 14F	--			177	0.0		
08/06/83 0943	5050 5050		7.4 85	65.3F 18.5C	7.4 360	31 1.35 45	19 1.56 43	6.0 .35 1C	--	--	5.0 .10	2.0 .06	--	.2 14F	--			156	0.0		
09/03/83 1215	5050 5050		7.7 88	65.3F 18.5C	7.3 360	30 1.30 41	22 1.41 49	6.0 .35 11	--	--	6.0 .12	2.0 .06	--	.3 14F	--			166	0.0		
09/30/83 1100	5050 5050		6.0 86	59.0F 15.5C	7.5 355	37 1.85 48	20 1.64 43	6.0 .35 C	--	--	5.0 .10	2.0 .06	--	.1 14F	--			175	0.0		
AB 5616.00 MOTTLE ROCK PUR PLANT NR GLENBROOK ACADA																					
07/27/83 1430	5050 5050				6.0 584	.00 0	.00 0	1.0 .04 10L	--	244 4.44	5.0 .10	14 .39	--	.4 --	.1 --		167	0	0.0 0.0		
08/15/83 1330	5050 5050				6.4 1320	1.0 .05 36	.0 .00 0	2.0 .09 64	--	2 .04	444 9.24	27 .76	--	149 --	.3 --	1020 624	2	0.6 1.1	E T		
08/15/83 1340	5050 5050				6.7 670	.00 0	.0 .00	.0C .0C	--	174 3.44	6.0 .17	65 1.83	--	53.0 --	.1 --	163 230	0	0.0 0.0	E T		
09/03/83 1115	5050 5050				7.0 1200	--	--	1.0 .04	--	--	376 7.83	--	--	146 --	--	--					
09/12/83 5050	5050				7.2 1050	--	--	1.0 .04	--	--	310 6.45	--	--	111 --	--	--					
09/12/83 5050	5050				8.5 584	--	--	1.0 .04	--	--	29 .60	--	--	31.0 --	--	--					
AB 5701.00 KELSEY C A GLENBROOK ACADA																					
10/04/84 0715	5050 5050		9.9 99	53.6F 12.0C	7.3 111	7.0 .35 33	3.0 .41 38	6.0 .24 5	1.8 .05	--	2.0 .04	2.0 .06	--	.0 24F	--			0.0			
11/08/84 1330	5050 5050		9.7 95	51.8F 11.0C	7.4 115	6.0 .40 33	6.0 .49 41	6.0 .26 22	2.1 .05	--	1.0 .02	3.0 .08	--	.0 54F	--			44	0.0		
12/04/84 1545	5050 5050		10.5 97	47.3F 8.5C	7.3 100	6.0 .30 29	6.0 .49 47	3.0 .22 21	1.4 .04	--	3.0 .06	2.0 .06	--	.0 44F	--			40	0.0		
01/07/85 1430	5050 5050		11.5 103	45.3F 7.5C	8.2 118	7.0 .35 20	5.0 .58 49	1.5 .22 16	1.3 .04	--	2.0 .04	2.0 .06	--	.0 154F	--			46	0.0		
02/04/85 1340	5050 5050		11.8 102	42.8F 6.0C	7.4 119	7.0 .31	6.0 .43	6.0 .23	1.5 4	--	4.0 .08	3.0 .08	--	.0 24F	--			42	0.0		
03/07/85 1320	5050 5050		11.4 99	42.8F 6.0C	7.4 115	7.0 .35 32	6.0 .49 43	6.0 .24 24	--	--	2.0 .04	2.0 .06	--	.1 44F	--			42	0.0		
04/01/85 1430	5050 5050		9.6 101	54.1F 14.5C	7.5 102	7.0 .35 32	6.0 .49 43	6.0 .26 24	--	--	4.0 .08	2.0 .06	--	.0 44F	--			42	0.0		
05/08/85 1445	5050 5050		9.5 98	56.3F 13.5C	7.6 120	7.0 .35 29	7.0 .58 49	6.0 .26 22	--	--	1.0 .02	2.0 .06	--	.1 34F	--			46	0.0		
06/04/85 1300	5050 5050		9.0 96	59.0F 15.0C	7.7 130	7.0 .35 31	6.0 .49 43	7.0 .30 26	--	--	1.0 .02	3.0 .08	--	.0 14F	--			42	0.0		
07/09/85 1345	5050 5050		8.7 102	67.1F 19.5C	7.8 122	7.0 .35 34	5.0 .41 40	6.0 .26 25	--	--	2.0 .04	2.0 .06	--	.0 14F	--			38	0.0		
08/06/85 1145	5050 5050		9.1 103	64.4F 18.0C	7.8 120	7.0 .35 33	5.0 .41 39	7.0 .30 2C	--	--	2.0 .04	2.0 .06	--	.0 24F	--			38	0.0		
09/03/85 1340	5050 5050		9.9 106	59.0F 15.0C	7.5 120	7.0 .35 33	5.0 .41 39	7.0 .26 2C	--	--	2.0 .04	2.0 .06	--	.0 14F	--			38	0.0		
09/30/85 1300	5050 5050		9.7 99	55.4F 13.0C	7.4 120	7.0 .35 31	6.0 .49 43	7.0 .30 2C	--	--	1.0 .02	2.0 .06	--	.0 24F	--			42	0.0		

TABLE C-1 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLE LAB	G.M. G	NO S&T	TEMP	FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER EQUIVALENTS PER LITER				MILLIGRAMS PER LITER EQUIVALENTS PER LITER				REMARKS	
							CA	MG	NA	P	PERCENT REACTANCE VALUE CACO3	SO4	CL	NO3	TURB	F	TNS SUM	TH MCM		SAR ASAR
AP 5710.00 ALOEP C & GLENBROOK							A0404													
10/04/84 0930	5050 5050		9.7 95	51.8F 11.0C	7.2	75	4.0 20 36	2.0 16 29	4.6 17 30	1.2 03 5	--	2.0 04	2.0 06	--	.0 14F	--			0.0	
11/06/84 1900	5050 5050		10.0 95	50.0F 10.0C	7.2	98	8.0 40 40	4.0 33 33	5.0 22 22	1.7 04 4	--	3.0 06	2.0 06	--	.0 54F	--	56	0.0		
12/04/84 1930	5050 5050		10.6 95	45.5F 7.5C	7.3	110	9.0 45 42	5.0 41 39	4.0 17 16	1.1 03 3	--	5.0 10	1.0 03	--	.0 64F	--	43	0.0		
01/07/85 1400	5050 5050		11.9 106	44.8F 7.0C	7.5	122	11 33 44	6.0 49 40	4.0 17 14	1.2 03 2	--	4.0 08	2.0 06	--	.0 94F	--	52	0.0		
02/04/85 1330	5050 5050		11.8 105	44.6F 7.0C	7.2	116	9.0 45 42	5.0 41 39	4.0 17 18	1.1 03 5	--	6.0 12	2.0 06	--	.1 14F	--	43	0.0		
03/07/85 1335	5050 5050		11.6 103	44.8F 7.0C	7.3	104	9.0 45 44	5.0 41 40	4.0 17 17	--	--	3.0 06	1.0 03	--	.0 14F	--	43	0.0		
04/01/85 1400	5050 5050		10.0 103	37.2F 14.0C	7.6	117	13 65 45	7.0 28 40	3.0 22 13	--	--	3.0 10	2.0 06	--	.1 24F	--	62	0.0		
06/04/85 1245	5050 5050		9.6 100	44.8F 17.0C	7.6	105	7.0 35 30	3.0 41 36	4.0 23 34	--	--	3.0 06	2.0 05	--	.1 14F	--	38	0.0		
07/09/85 1230	5050 5050		9.1 101	73.4F 23.0C	7.7	86	5.0 25 37	3.0 23 37	4.0 17 23	--	--	2.0 04	1.0 03	--	.3 24F	--	23	0.0		
08/06/85 1130	5050 5050		8.7 104	66.9F 20.5C	7.5	82	5.0 25 37	3.0 23 37	4.0 17 25	--	--	2.0 04	1.0 03	--	.1 14F	--	23	0.0		
09/03/85 1320	5050 5050		8.6 102	68.0F 20.0C	7.4	73	4.0 20 38	2.0 16 30	4.0 17 32	--	--	3.0 06	2.0 06	--	.0 14F	--	18	0.0		
09/30/85 1230	5050 5050		9.9 109	61.7F 16.5C	7.6	80	6.0 30 39	3.0 23 32	3.0 22 29	--	--	2.0 04	1.0 03	--	.0 14F	--	24	0.0		
A0 1250.00 PUTAH C NR WINTERS							A0280													
04/08/85 0950	5050 5050	5.64	10.4 96	53 F 12 C	A 0	320	30 95 26	27 41 61	11 23 13	--	168 2.96	--	5.0 14	--	--	--	183 24	159 11	0.4 0.7	
09/25/85 1030	5050 5050	6.78	7.9 76	55.9F 13.3C	A 1	343	38 90 25	27 2.22 61	11 48 13	1.3 03 1	156 3.00 83	21 44 12	.6 17 5	.6 01 0	.2 --	--	186 174	156 6	0.4 0.7	
R0 1175.01 COSUMNES R & OLLIARO RD							R0342													
10/04/84 1025	5050 5050		9.0 101	69.8F 21.0C	7.4	90	--	--	4.0 17	--	--	--	2.0 06	--	--	--				
11/07/84 1015	5050 5050		10.2 98	56.8F 13.6C	7.2	60	--	--	4.0 17	--	--	--	2.0 06	--	--	124	--			
12/05/84 1040	5050 5050		11.3 101	50.9F 10.5C	7.3	135	--	--	5.0 22	--	--	--	4.0 11	--	--	24	--			
R0 2105.20 WOKELIUNE R & LOVER SACTO RD							R0380													
10/04/84 0915	5050 5050		9.4 98	63.5F 17.5C	7.2	45	--	--	2.0 06	--	--	--	1.0 03	--	--	24	--			
11/07/84 0920	5050 5050		9.6 97	60.8F 16.0C	7.0	42	--	--	2.0 06	--	--	--	1.0 03	--	--	74	--			
12/05/84 0945	5050 5050		10.9 101	53.6F 12.0C	7.2	60	--	--	2.0 06	--	--	--	2.0 06	--	--	44	--			
R0 2500.00 CALAVERAS R NP JENNY LIND							R0380													
04/18/84 1015	2143 5050		11.4 103	51.5F 10.8C	A 0	183	--	--	--	--	--	--	--	--	--	24	--	117		
R0 7020.00 SAN JUANITO R NR VERNALIS							R0100													
10/25/84 0910	5050 5050		7.9 79	59.9F 15.5C	7.4	350	--	--	3.0 1.7C	--	--	--	.41 1.16	--	--	154	--			
11/29/84 0940	5050 5050		9.2 84	52.7F 11.5C	7.1	380	--	--	4.3 1.87	--	--	--	.44 1.24	--	--	104	--			
12/12/84 0830	5050 5050		9.2 83	51.8F 11.0C	7.3	340	--	--	3.4 1.48	--	--	--	.32 0.90	--	--	54	--			
01/30/85 0750	5050 5050		10.5 88	46.4F 8.0C	7.4	480	22 483	11 1.10	34 2.35	--	--	--	.55 1.55	--	--	14	--	100	0.0	

TABLE C-1 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLE LAB	CAT.	ON SET	TEMP	FIELD LABORATORY PH	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER				REMARKS	
						CA	MG	NA	K	PERCENT REACTANCE VALUE	SO4	CL	NO3	THP	SiO2	TDS	TM		SAP
AO 7020.00 CAN JOAGITH R NR VERNALIS						PC100 CONTINUED													
02/22/44	5050	4.4	54	12	F 7.4	485	598	3.26	75	95	73	7.7	4.4	94	342	137	2.6	S	
1310	5050	5.4	54	12	F 7.4	598	598	3.26	75	95	73	7.7	4.4	94	340	59	3.9		
02/27/45	5050	4.4	54.5F	7.4	590	30	15	77	2.4	74	95	73	7.7	4.4	340	59	3.9	S	
6414	5050	9.0	12.5C	8.0	629	1.50	1.23	3.05	.07	1.56	1.98	2.06	.12	94	340	59	3.9		
03/27/45	5050	4.0	55.0F	7.4	790	26	21	52	1	27	35	36	2	94	340	59	3.9	S	
6445	5050	4.0	55.0F	7.4	790	26	21	52	1	27	35	36	2	94	340	59	3.9		
R1 1150.00 COSUMNES R & MICHIGAN RAP																			
R0441																			
10/25/44	2143	2.43	4.1	57	F 7.1	75	75	75	75	75	75	75	75	75	75	75	75	S	
0450	5050	4.1	57	14	F 7.1	75	75	75	75	75	75	75	75	75	75	75	75		
04/25/45	5050	10.1	54.5F	7.5	60	6.0	3.0	3.0	3.0	26	1.0	1.0	1.0	14	54	28	0.2	E	
1330	5050	9.5	12.5C	7.4	61	4.4	2.4	1.1	1.1	.52	.63	.63	.63	14	54	28	0.1		
06/15/45	2143	1.73	5.5	83.7F	6.9	150	150	150	150	150	150	150	150	150	150	150	150	S	
1400	5050	7.1	28.7C	6.9	150	150	150	150	150	150	150	150	150	150	150	150	150		
09/26/45	5050	1.93	7.1	70.9F	7.9	95	7.0	5.0	5.0	1.2	4.5	4.0	2.0	.10	62	38	0.4	E	
0840	5050	8.0	21.4C	8.1	95	.35	.41	.22	.03	.90	.08	.06	.01	14	51	0	0.3		
R1 2100.00 COSUMNES R NF NR EL ORPAON																			
R0443																			
04/25/45	5050	7.6	54	F 7.4	48	5.0	2.0	3.0	3.0	20	1.0	1.0	1.0	14	46	20	0.3	E	
1230	5050	4.7	12	C 7.4	50	.25	.16	.13	.13	.40	.03	.03	.03	14	46	20	0.1		
09/20/45	5050	4.2	64.8F	7.6	79	6.0	2.0	3.0	1.0	27	2.0	1.0	.0	.0	52	23	0.3	E	
1130	5050	4.0	19.2C	8.0	68	.30	.16	.13	.03	.54	.04	.03	.00	14	31	0	0.1		
R1 3150.00 COSUMNES R NF NR SOMERSET																			
R0444																			
04/25/45	5050	10.3	46.5F	7.1	40	3.0	1.0	2.0	2.0	16	1.0	1.0	1.0	14	36	12	0.3	E	
0913	5050	9.2	8.0C	7.4	34	.15	.08	.09	.09	.32	.03	.03	.03	14	36	12	0.0		
09/20/45	5050	4.2	58.6F	7.4	69	4.0	2.0	3.0	1.1	29	2.0	1.0	.0	.0	49	23	0.3	E	
0915	5050	4.6	14.8C	8.0	61	.30	.16	.13	.03	.58	.04	.03	.00	14	32	0	0.1		
R1 4110.01 COSUMNES R SF A R PINES																			
R0444																			
04/25/45	5050	10.4	48	F 7.6	103	12	5.0	6.0	6.0	46	2.0	1.0	1.0	14	61	50	0.4	E	
0940	5050	9.6	9	C 7.3	106	.60	.41	.26	.26	.92	.06	.06	.06	14	50	5	0.3		
09/20/45	5050	7.4	56.3F	7.4	150	13	6.0	5.0	1.5	60	6.0	4.0	.0	.0	97	47	0.3	T	
0940	5050	7.7	14.4C	8.3	149	.65	.49	.22	.04	1.20	.12	.11	.00	14	71	0	0.3		
R2 1375.00 MCKELMERE R NF MCKELMERE HILL																			
R0440																			
04/25/45	5050	10.6	54.5F	7.3	34	4.0	1.0	3.0	3.0	13	1.0	1.0	1.0	14	38	14	0.3	E	
1100	5050	10.1	12.5C	7.5	34	.20	.08	.13	.13	.26	.03	.03	.03	14	38	14	0.0		
09/20/45	5050	4.2	61.9F	7.6	32	2.0	1.0	1.0	.5	12	1.0	1.0	.0	.0	23	9	0.1	E	
1040	5050	4.6	16.4C	7.9	43	.10	.08	.04	.01	.24	.02	.03	.00	14	14	0	0.0		
R2 155.6 MALLARD SL A PP																			
E07C1																			
02/13/45	5050	11.9	52.7F	7.7	695	96	96	96	96	155	155	155	155	155	155	155	155	S	
0750	5050	10.9	11.5C	7.7	749	4.18	4.18	4.18	4.18	4.37	4.37	4.37	4.37	124	124	124	124		
03/13/45	5050	13.5	57.2F	8.4	2100	320	320	320	320	558	558	558	558	104	104	104	104	S	
0415	5050	13.0	14.0C	8.4	2160	13.92	13.92	13.92	13.92	15.74	15.74	15.74	15.74	104	104	104	104		
R2 740.0 133.6 OFLA MENDOTA CA & LINDSEY RE																			
R0100																			
10/25/44	5050	4.8	60.8F	7.8	260	21	11	38	38	26	26	26	26	94	94	94	94	S	
1000	5050	4.9	14.0C	8.0	268	1.05	.90	1.65	1.65	.73	.73	.73	.73	94	94	94	94		
11/20/44	5050	10.2	51.8F	7.4	321	32	32	32	32	34	34	34	34	94	94	94	94	S	
1215	5050	9.2	11.0C	7.4	321	1.35	1.35	1.35	1.35	.64	.64	.64	.64	94	94	94	94		
12/14/44	5050	9.3	52.7F	7.2	310	31	31	31	31	32	32	32	32	94	94	94	94	S	
1015	5050	8.5	11.5C	7.2	315	1.35	1.35	1.35	1.35	.40	.40	.40	.40	94	94	94	94		
01/30/45	5050	10.6	45.5F	7.3	380	21	11	38	38	44	44	44	44	94	94	94	94	S	
0853	5050	4.8	7.5C	7.3	398	1.05	.90	1.65	1.65	1.24	1.24	1.24	1.24	94	94	94	94		
02/27/45	5050	4.0	55.4F	7.5	325	31	31	31	31	34	34	34	34	114	114	114	114	S	
1014	5050	4.4	11.0C	7.4	334	1.35	1.35	1.35	1.35	.96	.96	.96	.96	114	114	114	114		
03/27/45	5050	4.8	55.8F	7.4	320	31	31	31	31	31	31	31	31	94	94	94	94	S	
0445	5050	4.1	12.0C	7.4	314	1.24	1.24	1.24	1.24	.87	.87	.87	.87	94	94	94	94		
R2 740.3 124.0 OFLA R & TRACY RD RR																			
R0100																			
10/22/44	5050	9.8	F	238	14	6.0	2.4	2.4	2.4	25	25	25	25	135	60	0.0	S		
0845	5050	14	C	251	31	.70	.49	1.04	1.04	.71	.71	.71	.71	135	60	0.0	0.0		
11/11/44	5050	9.7	F	240	27	13	5.5	5.5	5.5	72	72	72	72	309	121	0.0	S		
1030	5050	14	C	268	1.35	1.35	1.35	1.35	1.35	2.63	2.63	2.63	2.63	309	121	0.0	0.0		
12/17/44	5050	9.0	F	369	14	7.0	1.4	1.4	1.4	14	14	14	14	124	64	0.0	S		
1230	5050	10	C	203	.70	.58	.81	.81	.81	.39	.39	.39	.39	124	64	0.0	0.0		

TABLE C-1 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLE LAB	G.W. D	NO SAT	TEMP	FIELD LABORATORY PM EC	MINERAL CONSTITUENTS IN				MILLIEQUIVALENTS PER LITER				MILLICRAMS PER LITER				TDS 510*	TH MCH	CAS ASAR	DEM
						CA	MG	NA	K	CA/CO3	SO4	CL	NO3	µ F	510*	µ F	510*				
RQ 0 748.3 126.9 QLO R A TRACY RD RR																					
										R0100 CONTINUED											
01/17/85	5050			46 F	775	36	19	63	--	--	--	105	--	--	--	--	446	16R	0.0		
1000	5050			8 C	783	1.80	1.36	3.7C				2.94	--	--	--	--					
02/21/85	5050			55 F	600	42	21	102	--	--	--	113	--	--	--	--	510	192	0.0		
1145	5050			13 C	673	2.10	1.73	4.44				3.10	--	--	--	--					
04/16/85	5050			68 F	939	38	24	104	--	--	--	113	--	--	--	--	480	194	0.0		
1030	5050			20 C	601	1.90	1.97	4.52				3.10	--	--	--	--					
05/16/85	5050			69 F	530	40	20	82	--	--	--	90	--	--	--	--	467	182	0.0		
1015	5050			21 C	767	2.00	1.64	3.57				2.70	--	--	--	--					
06/19/85	5050			78.1F	693	44	22	93	--	--	--	117	--	--	--	--	522	201	0.0		
0930	5050			25.6C	686	2.20	1.81	4.05				3.30	--	--	--	--					
RQ 0 751.9 119.3 SAN JOAQUIN R A RANAT RR																					
										R0100											
10/22/84	5050			57 F	258	14	6.0	23	--	--	--	27	--	--	--	--	146	60	0.0		
0800	5050			14 C	268	.70	.49	1.0C				.76	--	--	--	--					
11/13/84	5050			52 F	468	29	14	62	--	--	--	69	--	--	--	--	313	130	0.0		
0945	5050			11 C	550	1.45	1.13	2.7C				1.93	--	--	--	--					
12/15/84	5050			50 F	339	18	8.0	39	--	--	--	40	--	--	--	--	205	78	0.0		
0045	5050			10 C	362	.90	.66	1.7C				1.13	--	--	--	--					
01/17/85	5050			46 F	504	22	12	34	--	--	--	56	--	--	--	--	276	105	0.0		
0915	5050			8 C	488	1.10	.99	2.35				1.58	--	--	--	--					
02/21/85	5050			53 F	673	42	21	102	--	--	--	112	--	--	--	--	520	192	0.0		
1045	5050			12 C	663	2.10	1.73	4.44				3.10	--	--	--	--					
03/15/85	5050	5.33		55 F	653	33	16	74	--	--	--	76	--	--	--	--	403	149	0.0		
1000	5050			13 C	656	1.45	1.32	5.22				2.14	--	--	--	--					
04/16/85	5050	4.25		69 F	816	42	20	94	--	--	--	97	--	--	--	--	467	187	0.0		
0945	5050			21 C	776	2.10	1.64	4.05				2.74	--	--	--	--					
05/16/85	5050			69 F	708	36	18	75	--	--	--	87	--	--	--	--	428	164	0.0		
0945	5050			21 C	692	1.80	1.49	3.26				2.45	--	--	--	--					
06/19/85	5050			80.8F	736	36	18	78	--	--	--	95	--	--	--	--	435	164	0.0		
0845	5050			27.1C	759	1.80	1.48	3.39				2.68	--	--	--	--					
RQ 0 753.5 129.3 MIDDLE R A BORDEN HWY																					
										R0100											
02/06/85	5050			11.2	43.7F	7.3	390	--	--	36	--	--	43	--	--	--					
0930	5050			91	6.5C		391	--	--	1.65	--	--	1.21	--	--	134					
03/06/85	5050			10.0	50.0F	7.4	290	--	--	31	--	--	34	--	--	--					
0800	5050			88	10.0C		339	--	--	1.93	--	--	.96	--	--	124					
RQ 0 755.1 137.4 CONTRA COSTA-EAST ID PUMPING PL-1																					
										R0100											
10/22/84	5050			60 F	393	16	12	41	--	--	--	43	--	--	--	--	199	90	0.0		
0930	5050			16 C	406	.80	.99	1.78				1.21	--	--	--	--					
04/16/85	5050			68.4F	355	19	12	36	--	--	--	39	--	--	--	--	217	97	0.0		
1115	5050			20.2C	379	.95	.90	1.57				1.10	--	--	--	--					
05/16/85	5050			72.1F	330	15	11	34	--	--	--	40	--	--	--	--	190	82	0.0		
1100	5050			22.3C	343	.75	.90	1.44				1.13	--	--	--	--					
06/19/85	5050			76.6F	350	14	10	36	--	--	--	41	--	--	--	--	178	76	0.0		
1015	5050			24.8C	332	.70	.82	1.57				1.16	--	--	--	--					
RQ 0 756.2 131.7 MIDDLE R A WOLFEHME AQU																					
										R0100											
11/13/84	5050			37 F	239	14	7.0	26	--	--	--	21	--	--	--	--	124	64	0.0		
1245	5050			14 C	223	.70	.58	.87				.59	--	--	--	--					
12/17/84	5050			50 F	370	19	9.0	35	--	--	--	41	--	--	--	--	210	84	0.0		
1330	5050			10 C	369	.95	.74	1.52				1.16	--	--	--	--					
01/17/85	5050			45 F	406	23	11	37	--	--	--	48	--	--	--	--	244	109	0.0		
1130	5050			7 C	414	1.15	.90	1.63				1.38	--	--	--	--					
02/21/85	5050			52 F	360	19	11	33	--	--	--	38	--	--	--	--	216	92	0.0		
1300	5050			11 C	356	.95	.90	1.44				1.07	--	--	--	--					
03/15/85	5050			57 F	393	21	11	37	--	--	--	42	--	--	--	--	233	98	0.0		
1215	5050			14 C	391	1.05	.90	1.61				1.18	--	--	--	--					

TABLE C-1 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER ID	G.L. OF SAT	TEMP	FIELD LAB ANALYST	EC	MINERAL CONSTITUENTS IN CA	MG	HA	K	MILLIGRAMS PER LITER PERCENT REACTANCE VALUE CAPD3	MILLIGRAMS PER LITER PERCENT REACTANCE VALUE SO4	CL	NO3	THP	SI3P	THS	TH	ASAR	DEM
RO N 74A.2 131.7 MIDDLE R A MODELINNE AGU																			
04/16/45	5050		67.6F		335	19	10	32	--	--	--	14	--	--	--	201	84	0.0	
1300	5050		19.4C		351	.95	.82	1.35				.68							
						30	26	44											
06/20/45	5050		74.3F		260	15	8.0	27	--	--	--	24	--	--	--	217	70	0.0	E
1200	4050		24.0C	R.3	276	.75	.88	1.17				.74							
						29	26	45											
RO N 74A.1 134.3 OLD R NR ROCK SLU AR RANCHO DEL RIO																			
11/13/44	5050		58 F		11	6.0	14	--	--	--	14	--	--	--	--	104	52	0.0	
1230	5050		14 C		177	.55	.49	.61				.30							
						33	30	37											
01/22/45	5050		43 F		259	16	9.0	22	--	--	--	23	--	--	--	161	77	0.0	
1050	5050		6 C		264	.80	.74	.96				.65							
						32	30	38											
02/21/45	5050		53.0F		266	16	10	22	--	--	--	23	--	--	--	168	81	0.0	
1250	5050		11.7C		271	.80	.82	.94				.65							
						31	32	37											
03/15/45	5050		57 F		250	15	9.0	22	--	--	--	25	--	--	--	163	74	0.0	
1210	4040		14 C		266	.74	.74	.96				.71							
						31	30	34											
04/16/45	5050		67 F		220	17	10	22	--	--	--	14	--	--	--	143	84	0.0	
1240	5050		19 C		240	.85	.82	.96				.51							
						32	31	37											
05/16/45	5050		72.5F		240	13	8.0	22	--	--	--	26	--	--	--	132	66	0.0	
5050	5050		22.0C		241	.65	.66	.96				.73							
						29	29	42											
06/20/45	4040		71.6F		300	12	9.0	32	--	--	--	40	--	--	--	164	67	0.0	
0900	5050		22.0C		302	.60	.74	1.35				1.13							
						22	27	51											
RO N 75A.4 134.4 ROCK SL A OLD RIVER																			
10/25/44	5040		10.9	62.6F	8.0	200	--	--	14	--	--	15	--	--	--				
1130	5050		112	17.0C		194			.7C			.42		6A	--				S
11/20/44	5040		10.5	53.6F	7.4	190	--	--	14	--	--	13	--	--	--				S
1330	5050		97	12.0C		186			.61			.37		12A	--				S
12/12/44	5050		9.7	51.8F	7.3	200	--	--	14	--	--	13	--	--	--				S
1145	5040		88	11.0C		195			.61			.37		11A	--				S
01/30/45	5050		10.8	46.4F	7.2	280	18	10	22	--	--	24	--	--	--	86	0.0		S
1015	5050		01	8.0C		284	.90	.82	.96			.68		1A	--				S
							34	31	36										S
02/27/45	5050		10.3	57.2F	7.5	260	--	--	21	--	--	21	--	--	--				S
1145	5050		100	14.0C	7.6	258			.91			.59		6A	--				S
03/27/45	5040		10.1	53.6F	7.4	260	--	--	24	--	--	25	--	--	--				S
1115	5050		93	12.0C		269			1.04			.71		6A	--				S
RO N 75A.6 138.4 CONTRA COSTA CA A ROCK SLU																			
01/16/45	5040		45 F		320	17	10	26	--	--	--	31	--	--	--	190	84	0.0	
1115	4050		7 C		325	.85	.82	1.22				.87							
						29	28	42											
04/16/45	5050		66.0F		276	16	10	22	--	--	--	26	--	--	--	166	81	0.0	
1210	4050		18.9C		287	.80	.82	1.05				.73							
						30	30	46											
RO D 801.0 143.2 SAN JOAQUIN R A BLIND POINT																			
01/06/44	5050		43 F		230	--	--	--	--	--	--	19	--	--	--	137			
1030	5050		6 C		229							.54							
04/03/45	4050		55 F		200	--	--	--	--	--	--	15	--	--	--	167			
1015	4050		13 C		204							.90							
04/17/45	5040		64.0F		286	--	--	--	--	--	--	33	--	--	--	158			
1315	5050		17.8C		287							.93							
06/04/45	5040		67.1F		582	--	--	--	--	--	--	115	--	--	--	291			
1000	5040		19.5C		566							3.24							
RO N 802.0 137.2 RIVER SLU A BETHEL TRACT																			
01/14/44	5040		45 F		202	15	8.0	16	--	--	--	16	--	--	--	136	70	0.0	
1215	5050		7 C		223	.75	.86	.70				.45							
						34	31	33											
RO N 801.4 127.4 MIDDLE R A ATHERTON RD RR																			
10/04/44	5040		8.8	45.3F	7.3	130	--	--	7.6	--	--	4.0	--	--	--				S
0740	5050		93	14.5C		120			.3C			.14		5A	--				S
12/04/44	4050		9.8	50.9F	7.2	200	--	--	12	--	--	15	--	--	--				S
0650	5050		4.8	10.5C		184			.52			.42		14A	--				S

TABLE C-1 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER L#	G.W. C	DO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE CACCS				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER TDS CM TMR ST02				PH	
						CA	MG	NA	K	CL	NO3	TMR	ST02						
RO D R03.6 130.0 LITTLE CONNECTION EMPIRE ATHERTON																			RO100
02/06/85 0845	5050 5050		11.2 92	44.6F 7.0C	7.4 252	--	--	26 .87	--	--	22 .42	--	--	5A --	--	--	--	--	5
09/06/85 0015	5050 5050		10.0 90	51.8F 11.0C	7.4 218	--	--	14 .61	--	--	18 .51	--	--	7A --	--	--	--	--	6
RO D R13.4 130.3 MOKELIMNE R. NORTH AL SHODGRASS SL																			RO100
10/22/84 1043	5050 5050					57 14	F C	142 141	11 .55	6.0 .49	10 .44	--	--	6.0 .17	--	--	90	52	0.0
03/19/85 1000	5050 5050					55 13	F C	182 182	13 .65	7.0 .58	11 .46	--	--	8.0 .23	--	--	112	82	0.0
04/17/85 1014	5050 5050					63 18	F C	160 162	14 .70	7.0 .59	11 .46	--	--	7.0 .20	--	--	93	84	0.0
06/21/85 0944	5050 5050					71.2F 21.8C		136 110	9.0 .45	5.0 .41	8.0 .35	--	--	5.0 .14	--	--	78	43	0.0
RO D R14.4 131.0 SACRAMENTO R & WALNUT GROVE																			AC100
11/20/84 1100	5050 5050					60 16	F C	140 148	11 .55	6.0 .49	10 .44	--	--	9.0 .25	--	--	97	52	0.0
12/18/84 1030	5050 5050					49.1F 9.3C		148 150	13 .65	6.0 .49	13 .57	--	--	7.0 .20	--	--	112	57	0.0
01/22/85 1200	5050 5050					43 6	F C	206 205	14 .70	8.0 .66	14 .61	--	--	10 .28	--	--	122	68	0.0
03/19/85 1030	5050 5050					53 13	F C	183 184	14 .70	6.0 .58	13 .57	--	--	9.0 .25	--	--	122	68	0.0
04/17/85 1100	5050 5050					66 19	F C	176 172	14 .70	7.0 .58	12 .52	--	--	8.0 .23	--	--	90	84	0.0
06/03/85 0930	5050 5050					64.2F 17.9C		182 164	12 .60	7.0 .58	13 .57	--	--	7.0 .20	--	--	111	99	0.0
06/21/85 1045	5050 5050					71.8F 22.0C		143 128	13 .65	7.0 .58	17 .74	--	--	16 .45	--	--	80	62	0.0
RO D R14.5 148.2 CALHOUN CUT TRIS HWY 113-CREEK RO																			AO100
11/28/84 1030	5050 5050					8.0 76	55.4F 13.0C	7.3 8.4	260 261	5.0 .25	4.0 .33	4.5 2.13	6.0 1.20	26 .73	--	7404	177	29 0	4.0 3.0
RO D R14.6 130.5 MINER SLU & RYDE ISL SCW HWY																			AC100
10/24/84 1215	5050 5050					9.5 94	50 F 15 C	7.6 7.2	146 150	11 .55	6.0 .49	10 .44	52 1.04	8.0 .17	--	24 10.0	94	52 0	0.6 0.8
01/25/85 1330	5050 5050					10.6 88	45 F 7 C	7.4 8.0	204 240	16 .80	10 .82	17 .74	76 1.52	12 .34	--	54 17.0	61 5	0.8 1.1	5
04/11/85 0900	5050 5050					9.0 93	63 F 17 C	7.6 8.1	147 196	15 .75	9.0 .74	14 .61	8 1.30	10 .28	--	74 17.0	116	74 10	0.7 0.9
07/29/85 1230	5050 5050					7.7 87	70.7F 21.5C	7.6 8.4	165 152	11 .55	7.0 .46	11 .44	81 1.22	5.0 .14	--	94 17.0	134	56 0	0.6 0.7
RO D R15.0 136.0 STEAMBOAT SLU AL SUTTER SLU																			AC100
10/22/84 1230	5050 5050					58 14	F C	140 142	10 .50	6.0 .49	8.0 .35	--	--	5.0 .14	--	--	89	50	0.0
11/20/84 1015	5050 5050					52 11	F C	143 144	10 .50	5.0 .41	9.0 .35	--	--	8.0 .23	--	--	93	48	0.0
12/18/84 1100	5050 5050					48 9	F C	148 149	12 .60	6.0 .49	8.0 .35	--	--	8.0 .17	--	--	92	44	0.0
01/22/85 1230	5050 5050					43 8	F C	212 205	14 .70	8.0 .66	14 .61	--	--	10 .28	--	--	123	68	0.0
04/17/85 1145	5050 5050					8.6 10	F C	165 176	14 .70	8.0 .66	12 .52	--	--	7.0 .20	--	--	104	88	0.0
08/03/85 0900	5050 5050					84.0F 16.3C		184 171	12 .60	7.0 .58	12 .52	--	--	8.0 .17	--	--	104	59	0.0
08/21/84 1100	5050 5050					73.0F 22.8C		137 123	9.0 .45	5.0 .41	8.0 .35	--	--	8.0 .14	--	--	78	43	0.0

TABLE C-1 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAN	F.W. D	DO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE				REF				
						CA	MG	NA	K	CACO3	SO4	CL	NO3	TURB	SI02	TDS SUM	TH MCH		SAR			
RQ 0 115.0 140.2 LINDSAY SLU & HASTINGS CHIT																			40100			
10/11/84 0950	5050 1050			67.1F 10.9C	7.8 360 383	--	--	32 1.39	--	--	--	21 .59	--	--	284	--	--		5			
10/24/84 0945	5050 5050			6.8 F 14.1 C	7.8 F 402 414	20 1.00 24	21 1.73 41	31 1.52 31	--	143 2.86	--	24 .68	--	--	278 18.0	230	137 0	1.3 2.3				
11/15/84 1045	5050 5050			6.6 F 10.5C	7.3 360 353	--	--	31 1.35	--	--	--	23 .63	--	--	294	--	--		5			
11/16/84 1207	5050 5050			8.8 F 12.0 C	7.6 F 360 345	18 1.00 25	17 1.40 39	30 1.31 36	--	117 2.34	--	22 .62	--	--	274 12.0	205	113 0	1.2 2.0				
12/05/84 1044	5050 5050			7.8 F 10.9C	7.4 F 440 428	18 1.0 21	19 1.96 36	44 1.01 44	--	127 2.54	--	33 .93	--	--	364 13.0	265	123 0	1.7 2.9				
12/06/84 1050	5050 5050			8.3 F 11.0C	7.3 450 441	--	--	44 1.91	--	--	--	34 .98	--	--	374	--	--		5			
01/23/85 1043	5050 5050			9.2 F 14.1 C	7.4 F 542 558	24 1.20 21	25 2.06 36	58 2.44 43	--	193 3.06	50 1.04	46 1.30	--	4 124	4.2 14.0	324 307	163 10	1.9 3.6				
02/13/85 1140	5050 5050			6.7 F 10.9C	7.3 360 381	--	--	43 1.67	--	--	--	35 .99	--	--	1104	--	--		5			
02/22/85 1030	5050 5050			8.6 F 18.1 C	7.4 F 433 445	10 1.9 19	19 1.56 31	57 2.48 56	--	110 2.20	40 .83	39 1.10	--	3 654	4.2 7.0	264 248	126 16	2.2 3.6				
03/13/85 1145	5050 5050			9.1 F 15.2C	7.4 495 482	--	--	31 2.22	--	--	--	41 1.18	--	--	404	--	--		5			
03/27/85 1200	5050 5050			8.2 F 15.0 C	8.0 F 489 508	21 1.0 20	22 1.81 39	34 2.35 45	--	130 2.60	--	43 1.21	--	--	358 11.0	292	143 13	2.0 3.9				
04/11/85 1130	5050 5050			9.5 F 10.2 C	8.0 F 510 531	23 1.13 11	23 1.89 34	58 2.44 45	--	135 2.70	--	44 1.24	--	--	174 12.0	305	152 17	2.0 3.9				
05/17/85 0930	5050 5050			8.1 F 8.7 C	8.0 F 588 582	23 1.25 21	27 2.22 37	57 2.46 42	--	163 3.26	--	50 1.41	--	--	554 13.0	349	174 11	1.9 3.6				
07/20/85 1010	5050 5050			7.6 F 10.3C	8.0 F 377 381	17 1.05 23	17 1.40 38	34 1.46 40	--	109 2.18	--	28 .79	--	--	764 17.0	252	113 4	1.4 2.2				
08/15/85 0745	5050 5050			8.4 F 18.4C	8.0 F 363 363	17 1.43 23	15 1.23 36	36 1.31 39	--	104 2.08	28 .58	25 .71	--	2 334	1.1 18.0	211 194	104 0	1.3 2.0				
09/12/85 1130	5050 5050			8.8 F 18.0C	7.7 F 540 514	22 1.10 22	23 1.89 37	48 2.05 41	--	139 2.78	--	44 1.24	--	--	254 16.0	300	150 11	1.7 3.1				
RQ 0 137.8 144.8 CACHE SLU & VALLEJO PIPL																			40100			
10/11/84 0930	5050 5050			7.8 F 14.9C	8.2 550 504	--	--	44 1.91	--	--	--	42 1.18	--	--	294	--	--		5			
10/24/84 0930	5050 5050			8.2 F 10.4 C	7.8 F 774 709	40 2.00 23	30 3.21 40	64 2.79 31	--	200 4.00	--	76 2.14	--	--	124 23.0	478	261 61	1.7 3.7				
11/15/84 1000	5050 5050			7.7 F 12.5C	7.4 520 460	--	--	38 1.65	--	--	--	38 1.07	--	--	954	--	--		5			
11/16/84 1100	5050 5050			7.6 F 13.2 C	7.6 F 500 476	26 1.30 27	22 1.81 37	40 1.74 36	--	117 2.34	--	41 1.16	--	--	924 12.0	290	156 39	1.4 2.4				
12/05/84 1000	5050 5050			8.6 F 10.1C	7.6 F 606 600	36 1.40 26	26 2.14 35	52 2.28 36	--	155 3.10	--	50 1.41	--	--	354 18.0	380	197 42	1.6 3.2				
12/06/84 0950	5050 5050			8.8 F 10.5C	7.9 715 744	--	--	64 2.79	--	--	--	64 1.80	--	--	904	--	--		5			
01/25/85 1200	5050 5050			10.8 F 19.7 C	8.4 F 1001 1020	59 2.94 27	43 3.34 33	100 4.31 46	--	244 4.88	--	99 2.79	--	--	104 24.0	--	324 40	2.4 5.6	5			
03/27/85 1130	5050 5050			9.5 F 14.0 C	7.6 F 257 274	17 1.85 24	8.0 1.66 26	23 1.06 41	--	68 1.36	--	15 .42	--	--	2404 6.1	170	76 8	1.1 1.4				
04/11/85 1305	5050 4050			9.5 F 10.2 C	8.4 F 1021 939	40 1.90 27	46 3.78 35	93 4.05 38	--	244 4.82	--	47 2.45	--	--	164 15.0	462	336 90	2.2 3.2				
05/17/85 1014	5050 4050			7.9 F 14.1 C	8.4 F 549 543	33 1.85 26	32 2.83 45	34 1.77 27	--	183 3.68	--	31 .87	--	--	264 16.0	320	214 31	1.3 2.2				
07/24/85 0930	5050 5050			8.0 F 19.5C	8.2 F 584 584	32 1.60 27	33 2.71 45	35 1.70 28	--	180 3.80	--	40 1.13	--	--	924 19.0	393	216 36	1.2 2.4				

TABLE C-1 (CONTINUED)
MINERAL ANALYSIS OF SURFACE WATER

DATE TIME	SAMPLER LAR	G.H. Q	NO SAT	TEMP	FIELD		MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER				MILLIGRAMS PER LITER PERCENT REACTANCE VALUE				TDS G/L	TH ACH	CARBON ACAP	REMARKS
					LABORATORY PH	EC	Ca	Mg	Na	K	CaCO3	SO4	CL	NO3	TIPO	STP						
RQ R R20.7 132.7 SACRAMENTO R A GREENS INC AC100																						
10/04/84 0620	5050		9.0	63.5F	7.4	180	--	--	8.0	--	--	--	4.0	--	--	--	--	--	--	Y		
	5050		9.4	17.5C		132			.35				.11							E		
11/08/84 0820	5050		9.7	57.2F	7.3	160	--	--	1.6	--	--	--	6.0	--	--	--	--	--	--	S		
	5050		9.4	14.0C		154			.44				.17		114							
12/05/84 0745	5050		10.9	50.0F	7.4	200	--	--	9.0	--	--	--	6.0	--	--	--	--	--	--	Y		
	5050		9.7	10.5C		160			.35				.17		24.4					S		
01/30/85 1145	5050		11.9	49.2F	7.4	190	--	--	13	--	--	--	7.0	--	--	--	--	--	62	0.0		
	5050		10.3	9.0C		186			.65				.20		14					S		
									.37				.33									
02/04/85 1130	5050		12.1	46.4F	7.5	175	--	--	11	--	--	--	4.0	--	--	--	--	--	--	S		
	5050		10.2	8.0C		174			.48				.17		4.8					S		
03/04/85 1700	5050		10.5	51.0F	7.4	180	--	--	11	--	--	--	7.0	--	--	--	--	--	--	S		
	5050		9.5	11.0C		180			.48				.20		1.8							
RQ R R04.9 123.6 DWR-RP 13 MID-WAY, TO OF WHITE SL AC100																						
10/23/84 1345	5050	-3.75		62 F	8.5	1785	--	--	--	--	--	--	--	--	--	--	--	--	--			
	0000			17 C																		
	1																					
12/20/84 1110	5050	-2.39		48 F	8.4	1725	--	--	--	--	--	--	--	--	--	--	--	--	--			
	0000			9 C																		
	1																					
02/21/85 1445	5050	-3.10		51 F		1628	--	--	--	--	--	--	--	--	--	--	--	--	--			
	0000			11 C																		
	1																					
05/02/85 1120	5050	-3.21		68 F		1697	--	--	--	--	--	--	--	--	--	--	--	--	--			
	0000			20 C																		
	1																					
06/05/85 1130	5050	-2.86				1794	--	--	--	--	--	--	--	--	--	--	--	--	--			
	0000																					
	1																					
07/02/85 0830	5050	-3.19				1778	--	--	--	--	--	--	--	--	--	--	--	--	--			
	0000																					
	1																					
08/01/85 1000	5050	-2.89				1762	--	--	--	--	--	--	--	--	--	--	--	--	--			
	0000																					
	1																					
RQ R R05.4 123.9 DWR-RP 12 MID-WAY NO OF WHITE SL R0100																						
10/23/84 0925	5050	-1.97		60 F	8.3	795	--	--	--	--	--	--	--	--	--	--	--	--	--			
	0000			16 C																		
	1																					
12/20/84 1035	5050	-0.98		47 F	7.9	835	--	--	--	--	--	--	--	--	--	--	--	--	--			
	0000			8 C																		
	1																					
RQ R R05.8 124.1 DWR-RP 11 N-END, TREDWAY RD, F&M R0100																						
10/23/84 1000	5050	1.04		60 F	8.5	1780	--	--	--	--	--	--	--	--	--	--	--	--	--			
	0000			16 C																		
	1																					
12/20/84 1425	5050	2.10		50 F	8.8	1690	--	--	--	--	--	--	--	--	--	--	--	--	--			
	0000			10 C																		
	1																					
RQ R R06.4 124.4 DWR-RP 12 N-END, KINGDON RD, F&M R0100																						
10/23/84 1045	5050	-0.06		61 F	8.6	1520	--	--	--	--	--	--	--	--	--	--	--	--	--			
	0000			16 C																		
	1																					
12/18/84 1430	5050	1.32		49 F	8.4	1405	--	--	--	--	--	--	--	--	--	--	--	--	--			
	0000			9 C																		
	1																					
RQ R R06.5 124.4 DWR-RP 09 S-END, KINGDON RD, F&M R0100																						
10/23/84 1040	5050	-0.13		61 F	8.4	2165	--	--	--	--	--	--	--	--	--	--	--	--	--			
	0000			16 C																		
	1																					
12/18/84 1440	5050	1.25		49 F	8.4	2085	--	--	--	--	--	--	--	--	--	--	--	--	--			
	0000			9 C																		
	1																					
RQ R R07.5 124.7 DWR-RP 08 N-END, SARRENT RD, F&M R0100																						
10/24/84 1100	5050	-1.78		61 F	8.3	1830	--	--	--	--	--	--	--	--	--	--	--	--	--			
	0000			16 C																		
	1																					
12/18/84 1145	5050	-0.45		47 F	8.3	1780	--	--	--	--	--	--	--	--	--	--	--	--	--			
	0000			8 C																		
	1																					

TABLE C-1 (CONTINUED)

MINERAL ANALYSES OF SURFACE WATER

TIME	SAMPLE		G/G	NO SAT	TEMP	FIELD LABORATORY		MINERAL CONSTITUENTS IN							MILLIGRAMS PER LITER				MILLIGRAMS PER LITER						
	LAB	PIPER				PH	FC	CA	MG	NA	K	PERCENT			EQUIVALENTS PER LITER			PERCENT			EQUIVALENTS PER LITER				
												CaCO3	SO4	CL	NO3	THIR	SiO2	PO4	SiH	NH	ASAP	REM			
AQ R 007.7 124.7 DWR-RP 07 S-END, SARGENT RD, FARM AQ100																									
10/24/84 1110	5050 0000	0.13 1	61 16	F C	8.6	1630	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12/14/84 1200	5050 0000	1.77 1	48 9	F C	8.3	1480	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
AQ R 809.6 125.9 DWR-RP 06 S-END, WOODBRIDGE RD AC100																									
10/24/84 1430	5050 0000	-3.04 1	45 18	F C	8.2	1340	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12/17/84 1035	5050 0000	-2.55 1	49 9	F C	8.0	1650	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
AQ R 413.4 127.2 DWR-RP 05 N-END, WALNUT GROVE RD R0100																									
10/02/84 0930	5050 0000	-5.54 1	69 21	F C	8.4	1316	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12/13/84 1305	5050 0000	-4.04 1	52 11	F C	7.9	1316	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
02/21/85 0930	5050 0000	-4.36 1				1205	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
05/01/85 1215	5050 0000	-3.83 1				1298	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
06/04/85 1144	5050 0000	-4.23 1				1396	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/01/85 1215	5050 0000	-4.66 1				1304	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/31/85 1230	5050 0000	-5.12 1				1308	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
AQ R 816.6 127.9 DWR-RP 04 N-END, TWIN CITIES RD AC100																									
10/01/84 1345	5050 0000	-0.44 1	60 21	F C	8.3	264	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12/11/84 1520	5050 0000	0.64 1	53 12	F C	8.1	260	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
02/20/85 1345	5050 0000	0.42 1				281	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
04/24/85 0915	5050 0000	-0.12 1				266	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
06/03/85 1200	5050 0000	-0.46 1				286	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/01/85 1050	5050 0000	-0.22 1				297	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/31/85 0945	5050 0000	0.22 1				292	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
AQ R 816.7 126.0 DWR-RP 03 S-END, TWIN CITIES RD A0100																									
10/01/84 1410	5050 0000	-1.79 1	49 21	F C	8.4	744	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12/11/84 1600	5050 0000	-1.61 1	53 12	F C	8.3	726	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
AQ R 817.0 124.3 DWR-RP 02 S-END, FARM RD A0100																									
10/01/84 1144	5050 0000	-5.30 1	73 23	F C	9.1	662	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12/07/84 1515	5050 0000	-5.31 1	57 14	F C	8.4	682	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
AQ R 818.4 120.3 DWR-RP 01 N-END, DIERSEN-FARM RD A0100																									
10/01/84 0945	5050 0000	-4.00 1	69 21	F C	8.7	957	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12/07/84 1230	5050 0000	-3.84 1	53 12	F C	8.3	928	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE C-1 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.W. Q	OD SAT	TEMP F	FIELD LABORATORY PW EC	MINERAL CONSTITUENTS IN	MILLIGRAMS PER LITER PERCENT REACTANCE VALUE CACO3	MILLIGRAMS PER LITER CL	MILLIGRAMS PER LITER NO3	MILLIGRAMS PER LITER NH4	MILLIGRAMS PER LITER SIO2	MILLIGRAMS PER LITER Fe	MILLIGRAMS PER LITER Mn	MILLIGRAMS PER LITER Cu	MILLIGRAMS PER LITER Zn	MILLIGRAMS PER LITER As	MILLIGRAMS PER LITER Pb
AG V 803.6 124.9 AG-OR WED EMPIRE T S-SI ALBERTON BC100																	
02/06/85 0905	5050 5050		9.8 7.9	52.8F 6.0C	7.3 2500 2610	-- --	252 10.96	-- --	-- --	-- --	625 10.32	-- 264	-- --	-- --	-- --	-- --	-- --
03/06/85 0945	5050 5050		7.6 6.8	50.9F 10.5C	7.3 2200 2330	-- --	226 9.83	-- --	-- --	-- --	597 16.44	-- 144	-- --	-- --	-- --	-- --	-- --
AG V 807.9 134.7 AGRI-OR TYLER IS AY VORHANS LNDC AG100																	
03/27/85 1245	5050 5050		7.4 7.1	52.7F 11.5C	6.8 740 743	-- --	46 2.00	-- --	-- --	-- --	54 2.37	-- 294	-- --	-- --	-- --	-- --	-- --
AG V 813.2 135.7 AGRI-OR GRANO IS NR WALKER LNDC AG100																	
02/06/85 1030	5050 5050		7.5 6.9	52.7F 11.9C	7.1 550 576	-- --	43 1.87	-- --	-- --	-- --	35 .99	-- 344	-- --	-- --	-- --	-- --	-- --
03/06/85 1100	5050 5050		5.3 5.0	54.3F 12.9C	6.9 460 468	-- --	35 1.52	-- --	-- --	-- --	29 .62	-- 214	-- --	-- --	-- --	-- --	-- --
G3 L 033.4 048.4 EARLE LK STA NO 1A G08C2																	
11/07/84 1235	5050 5050		7.3 7.3	45.5F 7.5C	8.9 766 790	10 .50	40 3.24 3.37	104 4.52 4.52	27 .69 8	430 8.54	-- --	11 .31	-- 14F	-- --	190 0	3.3 7.4	-- --
04/23/85 1435	5050 5050		6.0 6.1	46.8F 8.2C	9.1 777	10 .50	41 3.37	104 4.52	-- 8	434 8.67	-- --	10 .28	-- 24F	-- --	194 0	3.2 7.7	-- --
06/14/85 1350	5050 5050		8.9 11.8	64.3F 20.7C	8.9 761 780	10 .50	42 3.45 3.45	105 4.57	-- 8	438 8.73	-- --	10 .28	-- 14F	-- --	198 0	3.2 7.7	-- --
08/02/85 1355	5050 5050		7.8 10.2	68.0F 20.0C	9.1 770 780	10 .50	42 3.45 3.45	107 4.57	28 8	438 8.73	-- --	11 .31	-- 14F	-- --	198 0	3.3 7.9	-- --
09/19/85 1335	5050 5050		8.5 8.0	59.5F 15.3C	9.1 790 804	10 .50	42 3.45 3.45	104 4.52	-- 8	448 9.93	-- --	10 .28	-- 14F	-- --	198 0	3.2 7.7	-- --
G3 L 035.2 045.1 EARLE LK STA NO 11 G08C2																	
11/07/84 0910	5050 5050		8.2 8.2	45.5F 7.5C	8.9 746 792	10 .50	40 3.24 3.37	105 4.57	26 .72	430 8.54	-- --	11 .31	-- 14F	-- --	190 0	3.3 7.8	-- --
04/23/85 0830	5050 5050		9.8 10.0	47.5F 8.6C	8.9 777	10 .50	41 3.37	103 4.48	-- 8	433 8.63	-- --	10 .28	-- 24F	-- --	194 0	3.2 7.6	-- --
06/14/85 0835	5050 5050		8.4 10.7	65.3F 18.5C	8.9 764 782	10 .50	42 3.45 3.45	105 4.57	-- 8	440 8.79	-- --	10 .28	-- 14F	-- --	198 0	3.2 7.4	-- --
09/14/85 0845	5050 5050		2.9 3.1	52.0F 11.1C	8.9 760 782	10 .50	41 3.37	104 4.52	-- 8	433 8.65	-- --	10 .28	-- 14F	-- --	194 0	3.2 7.7	-- --
08/02/85 0835	5050 5050		7.7 10.1	67.6F 19.8C	9.1 775 790	10 .50	42 3.45 3.45	106 4.61	-- 8	439 8.77	-- --	10 .28	-- 14F	-- --	198 0	3.3 7.9	-- --
08/02/85 0435	5050 5050		0.3 3	55.0F 13.1C	8.7 776	10 .40	41 3.37	102 4.44	-- 8	423 8.45	-- --	10 .28	-- 34F	-- --	194 0	3.2 7.4	-- --
09/19/85 0825	5050 5050		7.2 8.5	59.0F 15.0C	9.0 788 805	10 .50	43 3.54	105 4.57	-- 8	449 8.97	-- --	10 .28	-- 24F	-- --	202 0	3.2 7.7	-- --
09/19/85 0835	5050 5050		7.6 7.0	49.0F 15.0C	9.0 806	10 .50	43 3.54	106 4.61	-- 8	447 8.93	-- --	10 .28	-- 24F	-- --	202 0	3.2 7.8	-- --
G3 L 035.5 046.8 EARLE LK STA NO 2A G08C2																	
08/02/85 0930	5050 5050		7.9 10.2	66.9F 19.4C	9.1 766 786	10 .50	42 3.45	106 4.61	29 .72	437 8.73	-- --	10 .28	-- 24F	-- --	198 0	3.3 7.8	-- --
08/02/85 0930	5050 5050		0.1 1	56.8F 13.8C	9.7 781 780	11 .55	41 3.37	105 4.57	27 .69	428 8.49	-- --	10 .28	-- 14F	-- --	196 0	3.3 7.7	-- --
G3 L 036.9 044.7 EARLE LK STA NO 10A G08C2																	
11/07/84 1145	5050 5050		7.4 7.0	41.4F 5.2C	9.0 779 798	10 .50	41 3.37	104 4.52	27 .69	428 8.51	-- --	11 .31	-- 14F	-- --	194 0	3.2 7.7	-- --
04/23/85 1225	5050 5050		9.3 9.7	48.7F 9.3C	9.1 757 775	10 .50	41 3.37	103 4.44	-- 8	432 8.63	-- --	10 .28	-- 24F	-- --	194 0	3.2 7.6	-- --
06/14/85 1225	5050 5050		8.7 11.3	66.9F 19.4C	9.0 767 785	10 .50	42 3.45	106 4.61	-- 8	440 8.79	-- --	10 .28	-- 14F	-- --	198 0	3.3 7.4	-- --
08/02/85 1245	5050 5050		7.7 10.1	68.0F 20.0C	9.1 792 794	10 .50	42 3.45	106 4.61	29 .74	438 8.74	-- --	11 .31	-- 14F	-- --	198 0	3.3 7.4	-- --

TABLE C-1 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.W. G	NO SAT	TEMP	FIELD LABORATORY PH	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER TDS SUM				REF	
						CA	MG	NA	K	CaCO3	SO4	CL	NO3	TDS	TH	NRH	4AR		51R
G3 L 040.9 044.7 EAGLE LK STA NO 10A GCR2 CONTINUED																			
09/10/85 1210	5050 5050	0	8.2 97	50.0F 15.0C	9.1 9.0	780 905	10 5.50	43 3.54	106 4.61	-- --	450 8.90	-- --	10 .28	-- --	14F 14F	-- --	202 0	3.2 7.8	
G3 L 041.6 044.1 EAGLE LK STA NO 9A GCR2																			
09/10/85 1150	5050 5050	0	8.5 90	50.0F 14.2C	9.1 9.0	800 814	10 5.50	43 3.54	106 4.73	-- --	455 9.00	-- --	11 .31	-- --	14F 14F	-- --	202 0	3.3 8.0	
G3 L 040.4 044.0 EAGLE LK STA NO 4A GCR2																			
11/07/84 1103	5050 5050	0	7.6 71	40.6F 4.8C	9.0 8.8	705 805	10 5.50	42 3.45	110 4.79	28 .72	441 8.81	-- --	11 .31	-- --	14F 14F	-- --	198 0	3.4 8.1	
04/23/85 1110	5050 5050	0	9.2 98	50.4F 10.2C	9.1 8.8	755 763	10 5.37	41 3.37	103 4.48	-- --	426 8.51	-- --	10 .28	-- --	24F 24F	-- --	194 0	3.2 7.6	
06/14/85 1135	5050 5050	0	8.9 118	68.7F 20.4C	9.0 8.9	776 791	10 5.50	42 3.45	107 4.65	-- --	446 8.93	-- --	10 .28	-- --	14F 14F	-- --	198 0	3.3 7.9	
08/02/85 1200	5050 5050	0	7.1 93	60.0F 20.0C	9.1 9.1	815 826	10 5.30	44 3.62	112 4.87	15 .38	445 9.20	5.0 1.10	12 .30	4.1 .07	1.1 3.1	-- --	517 481	3.4 8.2	
09/10/85 1120	5050 5050	0	9.3 106	55.8F 13.2C	9.3 9.1	835 845	10 5.50	45 3.70	113 4.62	-- --	472 9.43	-- --	11 .31	-- --	14F 14F	-- --	210 0	3.4 8.3	
G3 L 041.9 041.2 EAGLE LK STA NO 7A GCR2																			
11/07/84 1005	5050 5050	0	7.6 71	41.0F 5.0C	9.0 8.8	815 835	9.0 4.5	44 3.62	114 4.96	30 .77	464 9.27	-- --	12 .34	-- --	14F 14F	-- --	204 0	3.5 8.4	
04/23/85 1003	5050 5050	0	9.5 101	50.0F 10.0C	8.9 8.7	750 780	9.0 4.5	41 3.37	105 4.57	-- --	436 8.71	-- --	10 .28	-- --	24F 24F	-- --	191 0	3.3 7.8	
06/14/85 1035	5050 5050	0	8.4 110	68.0F 20.0C	9.1 8.8	784 806	9.0 4.5	43 3.54	105 4.74	-- --	454 9.07	-- --	10 .28	-- --	14F 14F	-- --	200 0	3.4 8.1	
08/02/85 1040	5050 5050	0	7.6 98	66.4F 14.1C	9.1 9.1	821 840	8.0 4.0	46 3.78	117 5.05	31 .76	470 9.39	-- --	11 .31	-- --	14F 14F	-- --	209 0	3.5 8.8	
09/10/85 1010	5050 5050	0	8.1 92	55.4F 13.0C	9.3 9.2	860 871	8.0 4.0	48 3.95	119 5.13	-- --	494 9.87	-- --	12 .34	-- --	14F 14F	-- --	218 0	3.5 8.7	
G3 1140.00 PINE C A EAGLE LK NR SUSANVILLE GCR1																			
04/22/85 1110	5050 5050	3.38	10.0 103	48.2F 9.0C	7.5 8.0	84 82	5.0 2.5	3.0 .25	3.0 1.13	-- --	28 5.8	-- --	2.0 .08	-- --	-- 44F	-- --	25 0	0.3 0.1	
G3 2405.00 PAPPONOSE C NR SUSANVILLE GCR00																			
04/22/85 1440	5050 5050		8.2 110	68.8F 21.0C	8.2 8.3	200 206	20 1.00	10 .72	8.0 3.35	-- 2.24	112 2.24	-- --	1.0 .03	-- --	44F 44F	-- --	91 0	0.4 0.6	
G3 2510.00 MERRILL C A EAGLE LK NR SUSANVILLE GCR1																			
04/22/85 1405	5050 5050		7.7 90	66.2F 19.0C	7.1 8.2	93 80	6.0 3.0	5.0 .41	4.0 1.17	-- --	44 8.8	-- --	2.0 .06	-- --	-- 64F	-- --	36 0	0.3 0.2	
G3 2515.00 MERRILL C AL LITTLE MERRILL FLAT GCR1																			
04/22/85 1240	5050 5050	2E	8.5 102	50.0F 15.0C	7.8 8.4	74 73	5.0 2.5	5.0 .41	3.0 1.13	-- --	41 8.2	-- --	.0 .00	-- --	-- 64F	-- --	33 0	0.2 0.2	
G4 L 016.5 027.1 HONEY LK NR RUTTINGVILLE GCR00																			
11/14/84 1320	5050 5050		10.6 105	48.2F 9.0C	8.1 8.5	467 484	4.0 1.20	6.0 .66	5.0 3.26	4.0 .14	170 3.40	28 .58	30 .85	2.3 .04	2.3 360A	4 --	322 275	93 0	3.4 5.7
03/14/85 1605	5050 5050		9.5 92	44.4F 8.0C	8.8 8.8	1180 1160	12 .60	4.0 .33	252 10.96	-- --	323 6.45	-- --	118 3.33	-- --	-- 563A	.0 --	46 0	16.2 25.7	
05/07/85 1303	5050 5050		8.3 98	62.6F 17.0C	8.8 --	1370 --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- 11104F	-- --	-- --	-- --	
09/20/85 0943	5050 5050		9.9 111	58.1F 14.5C	9.1 9.0	1940 1980	10 4.50	4.0 .33	425 16.49	-- --	527 10.43	-- --	206 5.61	-- --	2.4 171A	-- --	44 0	27.9 44.2	
G4 1500.00 SUSAN P NR LITCHFIELD GCR00																			
11/14/84 1414	5050 5050		11.5 114	48.2F 9.0C	8.3 --	390 --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- 44F	-- --	-- --	-- --	
01/23/85 1410	5050 5050		12.2 167	39.2F 4.0C	8.2 --	400 --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- 44F	-- --	-- --	-- --	
03/13/85 1510	5050 5050		10.4 163	44.2F 9.0C	8.8 --	340 --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- 304F	-- --	-- --	-- --	

TABLE C-1 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G-4	DO CAT	TEMP	FIELD		MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER				MILLIGRAMS PER LITER				REMARKS	
					LABORATORY PM	EC	CA	MG	NA	K	PERCENT REACTANCE VALUE		F	T	TMS	TH	SAR			
											CaCO3	SO4						Cl		NO3
G4 1590.01					SUSAN R NR LITCHFIELD				GCHRO CONTINUED											
05/08/85 1025	5050 5050		A.7 16.1	60.8F 16.0C	A.1 A.4	405 417	25 1.25	12 2.00	4.2 2.0C 4.7	--	101 3.22	--	A.0 .23	--	.6 74	--	112 0	1.0 3.3		
07/10/85 1440	5050 5050		A.6 132	87.8F 31.0C	A.5	405	--	--	--	--	--	--	--	--	48F	--				
G4 1800.01					SUSAN R & LASSEN ST RR				GCHRO											
11/14/84 1920	5050 5050		1.66 44	11.4 103	41.0F 5.0C	7.9	12R	--	--	--	--	--	--	--	48F	--				
01/23/85 1115	5050 5050		1.33 18F	12.1 99	33.8F 1.0C	A.0	172	--	--	--	--	--	--	--	16F	--				
03/13/85 1550	5050 5050		1.71 4R	9.9 94	44.6F 7.0C	A.1	182	--	--	--	--	--	--	--	56F	--				
05/07/85 0930	5050 5050		2.04 79	9.8 100	50.0F 10.0C	7.5	89	--	--	--	--	--	--	--	76F	--				
07/11/85 0955	5050 5050		0.5R 3.6	A.5 106	66.2F 19.0C	A.1 A.3	18R 186	1R 1.86	10 .82 3.35 1.7	--	9R 1.92	--	1.0 .03	--	.0 14	--	A6 0	0.4 0.5		
09/20/85 1025	5050 5050		0.70 5.7	8.5 121	53.6F 12.0C	A.3	179	--	--	--	--	--	--	--	24F	--				
G4 2001.00					WILLOW C & RD A-27 NR LITCHFIELD				GCHRO											
11/14/84 1425	5050 5050		11.7 41	47.3F 115	A.4 8.5C	A.4	35R	--	--	--	--	--	--	--	56F	--				
01/23/85 1425	5050 5050		12.8 40	37.4F 109	A.4 3.0C	A.4	344	--	--	--	--	--	--	--	04F	--				
03/13/85 1500	5050 5050		9.6 60	48.2F 95	A.6 9.0C	A.4	359 336	18 .90	11 .90 1.85 4.8	--	15R 3.08	--	6.0 .17	--	.0 45.4	--	90 0	1.7 2.9		
05/07/85 1015	5050 5050		9.6 14	57.2F 107	A.4 14.0C	A.4	306	--	--	--	--	--	--	--	04F	--				
07/10/85 1435	5050 5050		9.3 9.3	80.6F 133	A.6 27.0C	A.4	368 373	20 1.00	14 1.15 1.87 4.4 7.7 .20 93	--	14R 3.76 0.9	--	6.0 .12 3	6.0 .17 4	.0 .00 0	16F	235 210	108 0	1.8 4.3	
09/19/85 1445	5050 5050		9.9 14	66.2F 122	A.7 19.0C	A.7	304	--	--	--	--	--	--	--	48F	--				
G6 1200.00					LONG VLY C RR DOYLE				GCHRO											
01/23/85 1250	5050 5050		11.6 103	39.2F 4.0C	A.1 7.8	A.1	396 410	22 1.10	9.0 .66 2.26 5.6	--	10R 2.16	--	15 .42	--	.5 114	--	RR 0	2.4 3.6		
G6 1704.00					LONG VLY CR NR HALLELUJAH JCT				GCHRO											
11/14/84 1210	5050 5050		5F 114	11.4 114	46.8F 8.0C	A.4	24R	--	--	--	--	--	--	--	38F	--				
03/14/85 0900	5050 5050		2.51 4.0	10.5 102	44.6F 7.0C	A.1	36R	--	--	--	--	--	--	--	304F	--				
05/07/85 1140	5050 5050		3F 103	84.6F 14.0C	A.5	294	--	--	--	--	--	--	--	--	46F	--				
07/11/85 0815	5050 5050		2.19 .7	8.1 101	64.4F 10.4C	A.0 7.2	541 549	18 1.00	9.0 .49 3.83 6.6 7.2 2	--	90 1.86 3.8	--	120 2.40 90	26 .73 14	1.2 .62 0		34R 317	70 0	4.4 4.0	
09/20/85 0415	5050 5050		8.8R 1E	49.1F 8.5C	A.3	310	--	--	--	--	--	--	--	--	38F	--				
G7 1644.00					TOLKEE R & TAMNE CTY				GCHRO											
10/18/84 1000	2163 5050		2.16 43	7.7 4R 9 C	7.1	92	--	--	--	--	--	--	--	--	78	--	54			
04/23/85 0845	5050 5050		7.8 40	64.9F 11.2C	7.0 7.4	99 100	12 1.00	3.0 .60 2.5 3.5 50	4.6 2.5 3.5 2.6	--	44 4.8R	--	4.0 .11	--	--	--	67 42	0.5 0	0.4	
04/14/84 1340	2163 5050		4.11 90	6.6 14.8C	7.2	10R	--	--	--	--	--	--	--	--	74	--	59			
09/18/85 0840	5050 5050		3.0R 77	52.2F 11.2C	7.4 A.2	110 96	9.0 .45	3.0 .25	4.7 2.6 1.04	--	42 4.4	--	2.0 .74	2.0 .60	.1 .60	.0 14	--	59 49	39 0	0.4 0.4

TABLE C-1 (CONTINUED)

MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAR	G.W. O	NO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN					MILLIGRAMS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER				REF		
						CA	MG	NA	K	CL	S04	CI	NO3	THPA	STOP	4	6	TDS SL4		TM NCH	SAR ASAR
G8 2300.00 CARSON R W F A WOODFORDS G0440																					
04/22/85 0830	5050		10.3 91	36 2	7.4 C 6.1	47 50	6.0 .30	2.0 .16	3.0 .13	-- 22	22 .44	-- --	1.0 .03	-- --	-- 1A	-- --	45 1	23 1	0.3 0.1	E	
08/17/85 0845	5050		8.9 94	48.2F 9.0C	7.9 7.9	85 74	8.0 .40	2.0 .16	4.0 .17	1.5 .04	19 .38	2.0 .04	6.0 .17	.3 .00	.0 0	-- --	83 35	28 0	0.3 0.1	E T	
G8 3420.20 CARSON R E F A HWY 4 G0340																					
10/31/84 0910	2163 5050		11.8 105	37 3	7.5 C	112	--	--	--	--	--	--	--	--	3A	--	81			S	
04/22/85 0915	5050		10.2 95	39.5F 4.2C	7.4 6.9	83 89	10 .50	3.0 .25	6.0 .26	-- 25	37 .74	--	1.0 .03	-- --	-- 2A	-- --	70 1	38 1	0.4 0.3	E	
08/14/85 0745	2163 5050		7.4 84	54.7F 12.6C	8.0	132	--	--	--	--	--	--	--	--	8A	--	78				
09/17/85 1310	5050	1.24	7.7 90	56.4F 13.6C	8.2 8.2	130 114	11 .55	3.0 .25	8.0 .35	1.5 .04	50 1.00	6.0 .12	2.0 .06	.1 0	.1 1A	-- --	58 62	40 0	0.6 0.3		
G9 2440.00 WALKER R W BL LITTLE WALKER R G0200																					
04/22/85 1045	5050		9.6 101	45.5F 7.5C	7.9 6.6	145 157	14 .70	3.0 .25	16 .70	-- 42	61 1.22	--	3.0 .08	-- --	-- 5A	-- --	103 0	48 0	1.0 1.0		
09/16/85 1000	5050	0.86	8.0 90	50.0F 10.0C	8.2 8.4	250 236	14 .70	3.0 .25	31 1.35	3.0 .08	87 1.74	18 .37	8.0 .23	.1 .00	.4 0	-- --	144 130	48 0	1.0 2.3		
G9 3230.00 WALKER R, E, NR PRIDGEPORT G0140																					
10/30/84 1620	2163 5050		9.52 31	41 93	4 7	153	--	--	--	--	--	--	--	--	17A	--	69			S	
04/22/85 1145	5050		9.0 103	52 11	7.8 C 7.3	172 190	19 .95	4.0 .33	14 .61	-- 32	77 1.54	--	2.0 .04	-- --	-- 1A	-- --	123 0	64 0	0.8 0.9		
08/14/85 0945	2163 5050	1.93	5.5 74	65.7F 18.7C	8.6	179	--	--	--	--	--	--	--	--	8A	--	123				
09/17/85 1100	5050	0.88	7.0 85	56.5F 13.6C	7.9 6.3	210 201	21 1.05	4.0 .33	13 .57	3.3 .08	81 1.62	13 .27	3.0 .08	2.4 .04	.1 15A	-- --	144 108	69 0	0.7 0.9	E	

TABLE C-2 **MINOR ELEMENT ANALYSES OF SURFACE WATER**

Lab and Sampler Agency Code

5050 - California Department of Water Resources

Abbreviations

TIME	- Pacific Standard Time on a 24-hour clock
Disch	- Instantaneous discharge in cubic feet per second (E = Estimated)
EC	- Electrical conductance in microsiemens at 25° C
TEMP	- Water temperature at time of sampling in degrees Fahrenheit (F) or Celsius (C)
pH	- Measure of acidity or alkalinity of water
CHROM (ALL)	- All chromium
CHROM (HEX)	- Hexavalent chromium
D	- Dissolved
T	- Total

TABLE C-2
MINOR ELEMENT ANALYSES OF SURFACE WATER

DATE TIME	SAMP L&R	DEPTH	DISCH EC	TEMP °F	ARSENIC	CONSTITUENTS BARIUM CADMIUM	IN MILLIGRAMS CHROM (VI) CHROM (III)	PER LITER COPPER IRON	LEAD MANGANESE	MERCURY SELENIUM	SILVER ZINC
A0 Y 818.4 147.4 ULATIS CR AT BROWN RD A0240											
11/13/84 1720	5050 5050		320	15.0C 7.5	0.00 0	-- --	0.00 --	0 0.01 0	0.00 0.09 0	-- 0.001 0	0.01 -- 0
11/28/84 1200	5050 5050	240		11.5C 7.7	-- --	-- --	-- --	-- --	-- --	0.000 -- 0	-- -- --
03/11/85 1200	5050 5050	440		14.5C 8.0	0.00 0	-- --	0.00 --	0 0.14 0	0.00 0.02 0	-- 0.001 0	0.04 -- 0
A0 Y 821.5 150.8 ULATIS CR AT HAWKINS RD A0240											
11/28/84 1200	5050 5050	240		11.5C 7.7	-- --	-- --	-- --	-- --	-- --	0.000 -- 0	-- -- --
A0 9220.00 BARKER SLU NR NOTIER A0240											
11/13/84 1115	5050 5050	360		15.0C 8.1	0.00 0	-- --	0.00 --	0 0.10 0	0.00 0.03 0	-- 0.000 0	-- 0.02 0
11/28/84 1105	5050 5050	260		11.5C 7.5	-- --	-- --	-- --	-- --	-- --	0.000 -- 0	-- -- --
03/11/85 1100	5050 5050	600		13.5C 6.3	0.00 0	-- --	0.00 --	0 0.05 0	0.00 0.02 0	-- 0.000 0	0.02 -- 0
A2 0130.00 SHAW C L A SHASTA LK A2040											
04/17/85 1020	5050 5050	25 E 113		13.0C 4.5	-- --	-- --	-- --	0.51 -- T	-- --	-- --	-- -- --
05/23/85 1220	5050 5050	25 E 154		14.0C 4.1	-- --	-- --	-- --	0.72 -- T	-- --	-- --	-- -- --
07/25/85 1130	5050 5050	5 E 251		25.5C 3.6	-- --	-- --	-- --	1.2 -- T	-- --	-- --	-- -- --
08/21/85 0855	5050 5050	5 E 315		34.5C 3.5	-- --	-- --	-- --	1.6 -- T	-- --	-- --	-- -- --
A3 1110.00 STONY C RL BLACK BUTTE OH NR ORLAND A1340											
09/13/85 0840	5050 5050	382 84.1		20.0C 8.1	0.00 0	-- --	-- --	-- --	-- --	-- --	-- -- --
A3 1253.00 STONY C AR GRINSTONE C A1441											
09/13/85 0930	5050 5050	5 E 393		14.0C 8.3	0.00 0	-- --	-- --	-- --	-- --	-- --	-- -- --
AR L 857.9 240.6 CLEAR LK LO ARM CL3 A0402											
10/23/84 1100	5050 5050	0 232		14.4C 7.9	0.00 T	0.00 T	0.00 --	0.00 0.51 T	0.00 0.01 T	0.000 0.000 T	-- 0.00 T
03/19/85 1100	5050 5050	0 252		9.8C 7.2	0.00 T	0.00 T	0.00 --	0.00 0.22 T	0.00 0.01 T	0.000 0.000 T	-- 0.01 T
AR L 900.7 241.7 CLEAR LK 23 DAMS ARM CL4 A0402											
10/23/84 1145	5040 5040	0 222		14.1C 8.0	0.00 T	0.00 T	0.00 --	0.00 0.68 T	0.00 0.02 T	0.000 0.000 T	-- 0.00 T
03/19/85 1145	5050 5050	0 242		9.3C 7.6	0.00 T	0.00 T	0.00 --	0.00 0.24 T	0.00 0.01 T	0.000 0.000 T	-- 0.01 T
AR L 903.8 251.9 CLEAR LK 15-UP ARM CL-1 A0402											
10/23/84 1015	5050 5050	0 210		14.1C 7.9	0.00 T	0.00 T	0.00 --	0.00 1.4 T	0.00 0.04 T	0.000 0.000 T	-- 0.01 T
03/19/85 1015	5050 5050	0 211		11.0C 7.6	0.00 T	0.00 T	0.00 --	0.00 0.47 T	0.00 0.01 T	0.000 0.000 T	-- 0.00 T
AR 1500.00 HELSEY C NR HELSEYVILLE A0404											
10/04/84 0620	5050 5050	231		14.0C 7.3	-- --	0.00 T	-- --	0.00 0.26 T	0.00 0.01 T	0.000 -- T	-- 0.01 T
04/03/85 0730	5050 5050	235		10.5C 7.5	-- --	0.00 T	-- --	0.00 0.16 T	0.00 0.01 T	0.000 -- T	-- 0.01 T
07/09/85 0955	5050 5050	335		23.0C 7.8	-- --	0.00 T	-- --	0.01 0.06 T	0.00 0.01 T	0.000 -- T	-- 0.01 T
09/30/85 1400	5050 5050	200		20.5C 7.6	-- --	0.00 T	-- --	0.00 0.07 T	0.00 0.00 T	0.000 -- T	-- 0.00 T
AR 5621.00 HELSEY C AR HIGH VLY C A0404											
10/04/84 0840	5050 5050	120		13.0C 7.3	-- --	0.00 T	-- --	0.00 0.17 T	0.00 0.00 T	0.000 -- T	-- 0.01 T
04/01/85 1145	5050 5050	149		12.0C 7.7	-- --	0.00 T	-- --	0.00 0.26 T	0.00 0.01 T	0.000 -- T	-- 0.00 T
07/09/85 1200	5050 5050	150		22.0C 8.0	-- --	0.00 T	-- --	0.00 0.16 T	0.00 0.01 T	0.000 -- T	-- 0.00 T
09/30/85 1130	5050 5050	132		14.0C 7.5	-- --	0.00 T	-- --	0.01 0.12 T	0.00 0.00 T	0.000 -- T	-- 0.00 T
AR 5610.00 HIGH VALLEY C AR HELSEY C A0404											
10/04/84 0900	5050 5040	330		14.5C 7.4	-- --	0.00 T	-- --	0.00 0.16 T	0.00 0.02 T	0.000 -- T	-- 0.00 T
04/01/85 1130	5050 5050	148		12.0C 7.8	-- --	0.00 T	-- --	0.00 0.16 T	0.00 0.01 T	0.000 -- T	-- 0.00 T
07/09/85 1130	5050 5050	340		20.5C 7.9	-- --	0.00 T	-- --	0.00 0.10 T	0.01 0.01 T	0.000 -- T	-- 0.01 T

TABLE C-2 (CONTINUED)
MINOR ELEMENT ANALYSES OF SURFACE WATERS

DATE TIME	SAMP LAB	DEPTH M	DISCH EC	TEMP °C	ARSENIC	CONSTITUENTS BARITUM CADMIUM	IN MILLIGRAMS CHROM (ALL) CHROM (HEX)	PER LITER COPPER IRON	LEAD MANGANESE	MERCURY TELURUM	SILVER ZINC
AS 3610.00 HIGH VALLEY C AA KELSEY C											
AQ04N CONTINUED											
10/30/85	5050			15.3C				0.00 T	0.00 T	0.000 T	
1100	5050		353	7.3		0.00 T		0.68 T	0.01 T		0.00 T
AB 3610.00 BOTTLE ROCK PWP PLANT NR GLENAROCK											
AQ04N											
07/27/85	5050				0.01 T			0.02 T		0.000 T	
1430	5050										
08/15/85	5050					0.00 T		0.24 T	0.00 T	0.000 T	
1330	5050				0.31 T	0.00 T		13.0 T	0.19 T		0.01 T
09/13/85	5050					0.00 T		0.01 T	0.00 T	0.001 T	
1340	5050				0.05 T	0.00 T		0.23 T	0.16 T		0.00 T
09/03/85	5050					0.00 T		0.68 T	0.00 T	0.015 T	
1115	5050				0.46 T	0.00 T		26.0 T	0.18 T	0.002 T	0.02 T
09/12/85	5050					0.00 T		0.64 T	0.00 T	0.002 T	
5050					0.21 T	0.00 T		7.3 T	0.15 T	0.003 T	0.00 T
09/12/85	5050					0.00 T		0.04 T	0.00 T	0.943 T	
5050					0.71 T	0.00 T		36.0 T	0.76 T	0.000 T	0.00 T
AB 3701.00 KELSEY C & GLENAROCK											
AQ04N											
10/04/84	5050			12.0C				0.00 T	0.00 T	0.000 T	
0715	5050	111		7.3		0.00 T		0.28 T	0.00 T		0.00 T
04/01/85	5050			14.9C				0.60 T	0.00 T	0.000 T	
1430	5050	102		7.3		0.00 T		0.43 T	0.01 T		0.00 T
07/09/85	5050			14.9C				0.60 T	0.01 T	0.000 T	
1345	5050	122		7.9		0.00 T		0.18 T	0.00 T		0.00 T
09/30/85	5050			13.0C				0.60 T	0.00 T	0.000 T	
1300	5050	120		7.4		0.00 T		0.15 T	0.00 T		0.01 T
AS 3710.00 ALDER C & GLENAROCK											
AQ04N											
10/04/84	5050			11.0C				0.00 T	0.00 T	0.000 T	
0830	5050	73		7.2		0.00 T		0.11 T	0.01 T		0.00 T
04/01/85	5050			14.0C				0.00 T	0.00 T	0.000 T	
1400	5050	117		7.0		0.00 T		0.18 T	0.01 T		0.00 T
07/09/85	5050			23.0C				0.00 T	0.00 T	0.000 T	
1230	5050	88		7.7		0.00 T		0.09 T	0.01 T		0.01 T
09/30/85	5050			16.3C				0.01 T	0.00 T	0.000 T	
1230	5050	80		7.6		0.00 T		0.10 T	0.01 T		0.00 T
B0 7020.00 SAN JOAQUIN R NR VERNALIS											
B0100											
10/25/84	5050			13.3C							
0810	5050	350		7.4						0.000 T	
11/29/84	5050			11.9C							
0945	5050	380		7.1						0.000 T	
12/12/84	5050			11.0C							
0835	5050	380		7.3						0.000 T	
01/30/85	5050			8.0C							
0750	5050	480		7.4						0.001 T	
02/22/85	5050			34 F							
1310	5050	385		7.4						0.001 T	
02/27/85	5050			12.3C			0.00 0	0.60 0	0.00 0	0.002 T	0.00 0
0815	5050	390		7.4	0.00 0	0.00 0	0.00 0	0.08 0	0.04 0		
03/27/85	5050			12.0C							
0845	5050	790		7.4						0.002 T	
AB 7 402.2 195.6 WALLER SL & PP											
EQ04E											
02/13/85	5050			11.5C							
0750	5050	695		7.7						0.000 T	
09/13/85	5050			14.0C							
0815	5050	2100		8.4						0.000 T	
AB C 749.0 133.5 DELTA MEMOTA CA & LINDERMAN RD											
B0100											
10/25/84	5050			16.0C							
1000	5050	260		7.8						0.000 T	
11/29/84	5050			110 C							
1215	5050	320		7.4						0.000 T	
12/12/84	5050			11.9C							
1015	5050	310		7.2						0.000 T	
01/30/85	5050			7.5C							
0850	5050	380		7.3						0.001 T	
02/27/85	5050			18.0C							
1015	5050	325		7.5						0.000 T	
03/27/85	5050			12.0C							
0845	5050	320		7.4						0.000 T	
AB D 753.4 124.3 MIDDLE R & BORDEN HWY											
B0100											
02/06/85	5050			6.5C							
0830	5050	390		7.3						0.000 T	
09/06/85	5050			10.0C							
0800	5050	290		7.4						0.000 T	
AB D 758.4 134.8 ROCK SL & OLD RIVER											
B0100											
01/10/85	5050			8.3C							
1715	5050	280		7.2						0.001 T	
02/27/85	5050			14.0C							
1145	5050	260		7.5						0.000 T	

TABLE C-2 (CONTINUED)
MINOR ELEMENT ANALYSES OF SURFACE WATER

DATE TIME	SAMP ID	DEPTH M	DISCH CFS	TEMP F	ARSENIC	CONSTITUENTS BARIIUM CADMIUM CHROMIUM	IN MILLIGRAMS PER LITER (CHROMIUM)	LEAD MANGANESE	MERCURY SELENIUM	SILVER ZINC
49 0 758.4 134.8 ROCK SL & OLD RIVER										
AC100 CONTINUED										
03/27/85 1115	5050		260	12.0C 7.4	--	--	--	--	0.000	n
49 D 814.6 139.5 MINER SLU & AYNIE ISL SCH HWY										
A0100										
10/24/84 1219	5050	146	90 F 7.6	--	--	--	--	0.02	n	0.000
01/25/85 1330	5050	204	45 F 7.4	--	--	--	--	0.02	n	0.001
04/11/85 0900	5050	187	63 F 7.6	--	--	--	--	0.02	n	0.000
07/29/85 1230	5050	165	21.5C 7.6	--	--	--	--	0.00	n	--
49 0 815.8 146.2 LINDSAY SLU & HASTINGS CUT										
A0100										
10/24/84 0945	5050	402	58 F 7.8	--	--	--	--	0.01	0	0.000
11/15/84 1045	5050	360	12.5C 7.5	--	--	--	--	--	0.000	n
11/16/84 1200	5050	360	54 F 7.6	--	--	--	--	0.02	n	0.000
12/05/84 1045	5050	440	10.5C 7.4	--	--	--	--	0.02	n	0.000
12/06/84 1050	5050	450	11.0C 7.3	--	--	--	--	--	0.000	n
01/25/85 1045	5050	542	43 F 7.4	0.00	0	0.00	0	0.00	0	0.01
02/13/85 1150	5050	360	10.5C 7.3	--	--	--	--	--	0.000	n
02/22/85 1030	5050	435	52 F 7.4	0.00	0	0.00	0	0.01	0	0.000
03/13/85 1145	5050	495	12.5C 7.6	--	--	--	--	--	0.000	0
03/27/85 1200	5050	489	50 F 8.0	--	--	--	--	0.05	n	0.000
04/11/85 1130	5050	510	66 F 8.0	--	--	--	--	0.00	n	0.000
05/17/85 0930	5050	588	66 F 8.0	--	--	--	--	0.04	n	0.000
07/29/85 1010	5050	577	20.3C 8.0	--	--	--	--	0.02	n	--
08/15/85 0745	5050	363	16.9C 8.0	0.00	0	0.00	0	0.01	0	0.000
09/12/85 1130	5050	540	16.0C 7.7	--	--	--	--	0.02	n	--
49 0 817.8 144.8 CACHE SLU & VALLEJO PUPL										
A0100										
10/24/84 0900	5050	775	58 F 7.8	--	--	--	--	0.02	0	0.001
11/15/84 1000	5050	520	12.5C 7.4	--	--	--	--	--	0.000	n
11/16/84 1100	5050	500	54 F 7.6	--	--	--	--	0.01	n	0.000
12/05/84 1000	5050	640	10.5C 7.6	--	--	--	--	0.05	0	0.001
12/06/84 0950	5050	715	10.5C 7.9	--	--	--	--	--	0.001	n
01/25/85 1200	5050	1001	45 F 8.4	--	--	--	--	0.07	n	0.002
03/27/85 1030	5050	257	50 F 7.6	--	--	--	--	0.02	n	0.000
04/11/85 1305	5050	1025	66 F 8.4	--	--	--	--	0.01	0	0.002
05/17/85 1015	5050	549	65 F 8.4	--	--	--	--	0.08	n	0.001
07/29/85 0910	5050	584	19.3C 8.2	--	--	--	--	0.01	n	--
49 0 820.7 152.7 SACRAMENTO R & GREENS LOG										
A0100										
10/04/84 0620	5050	180	17.5C 7.4	--	--	--	--	--	0.000	n
11/08/84 0820	5050	160	14.0C 7.3	--	--	--	--	--	0.000	n
12/05/84 0745	5050	200	10.5C 7.4	--	--	--	--	--	0.000	n
01/30/85 1145	5050	190	14.0C 7.4	--	--	--	--	--	0.000	n

TABLE C-2 (CONTINUED)

MINOR ELEMENT ANALYSES OF SURFACE WATER

DATE TIME	SAMP LAR	DEPTH	DISCH EC	TEMP PH	ARSENIC	BARIUM CADIUM	CHROM (HEX)	PER LITER COPPER IRON	LEAD MANGANESE	MERCURY SELENIUM	SILVER ZINC
RQ N 820.7 132.7 SACRAMENTO R & GREENS LOC					A0100 CONTINUED						
02/06/85	5050			8.0C			--	--	--	--	--
1130	5050		175	7.5	--	--	--	--	--	0.090	0
03/06/85	5050			11.0C			--	--	--	--	--
1200	5050		180	7.4	--	--	--	--	--	0.090	0
RQ V R03.6 129.9 AG-OR W-ED EMPIRE T S-51 ATHEPTON					R0100						
02/06/85	5050			6.0C			--	--	--	--	--
0905	5050		2500	7.3	--	--	--	--	--	0.000	0
03/06/85	5050			10.5C			--	--	--	--	--
0945	5050		2200	7.3	--	--	--	--	--	0.000	0
RQ V R07.9 134.7 AGRI-OR TYLER IS RY VORMANS LNDG					A0100						
03/27/85	5050			11.5C			--	--	--	--	--
1245	5050		740	6.8	--	--	--	--	--	0.000	0
RQ V R13.2 135.7 AGRI-OR GRANO IS NR WALKER LNDG					A0100						
02/06/85	5050			11.5C			--	--	--	--	--
1030	5050		550	7.1	--	--	--	--	--	0.300	0
03/06/85	5050			12.5C			--	--	--	--	--
1100	5050		480	6.9	--	--	--	--	--	0.000	0
G3 L R19.2 045.1 EAGLE LK STA NO 11					G08C2						
06/14/85	5050			18.3C			--	--	--	--	--
0835	5050	0	764	6.9	--	--	--	0.03	T	--	--
06/14/85	5050			11.1C			--	--	--	--	--
0845	5050	61	760	8.9	--	--	--	0.03	T	--	--
08/02/85	5050			19.0C			--	--	--	--	--
0835	5050	0	775	9.1	--	--	--	0.11	T	--	--
08/02/85	5050			13.1C			--	--	--	--	--
0835	5050	61	779	8.7	--	--	--	0.26	T	--	--
G3 L R36.9 044.7 EAGLE LK STA NO 10A					G08C2						
08/02/85	5050			20.0C			--	--	--	--	--
1240	5050	0	792	9.1	--	--	--	0.12	T	--	--
G3 L R40.4 046.0 EAGLE LK STA NO 4A					G08C2						
08/02/85	5050			20.0C			--	--	--	--	--
1200	5050	0	815	9.1	--	--	--	0.53	T	--	--
G3 L R41.9 041.2 EAGLE LK STA NO 7A					G08C2						
08/02/85	5050			19.1C			--	--	--	--	--
1040	5050	0	821	9.1	--	--	--	0.07	T	--	--
G3 1140.00 PINE C & EAGLE LK NR SUSANVILLE					G08C1						
04/22/85	5050			9.0C			--	--	--	--	--
1110	5050		84	7.5	--	--	--	0.26	T	--	--
G3 2505.00 PAPDOSE C NR SUSANVILLE					G0600						
04/22/85	5050			21.0C			--	--	--	--	--
1443	5050		209	6.2	--	--	--	0.60	T	--	--
G3 2510.00 MERRILL C & EAGLE LK NR SUSANVILL					G08C1						
04/22/85	5050			19.0C			--	--	--	--	--
1405	5050		93	7.1	--	--	--	0.29	T	--	--
G3 2515.00 MERRILL C NL LITTLE MERRILL FLAT					G08C1						
04/22/85	5050			2 F 15.0C			--	--	--	--	--
1240	5050		74	7.6	--	--	--	0.28	T	--	--

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TABLE C-3
MISCELLANEOUS ANALYSES OF SURFACE WATER

Lab and Sampler Agency Codes

2163	- California Department of Water Resources for the State Water Resources Control Board
5050	- California Department of Water Resources
8000	- University of Nevada Desert Research Institute Laboratory

Abbreviations and Constituents

TIME	- Pacific Standard Time on a 24-hour clock
TEMP	- Water temperature at time of sampling in degrees Fahrenheit (F) or Celcius (C)
EC	- Electrical conductance in microsiemens at 25° C
DO	- Dissolved oxygen content in milligrams per liter
GH	- Instantaneous gage height in feet above an established datum
pH	- Measure of acidity or alkalinity of water: F = field determination, L = Lab determination
DISCH	- Instantaneous discharge in cubic feet per second (E = estimated)
MBAS	- Methylene blue active substance (a test for detergent surfactants) in milligrams per liter
DEPTH	- Depth, in feet, at which sample was collected
TURB	- Jackson turbidity units measured with a Hach nephelometer, (A); if in the field, (F)
T+L	- Tannin and lignin as tannic acid in milligrams per liter
CHLOR	- Field determination of residual chlorine in milligrams per liter
O+G	- Oil and grease in milligrams per liter
COLOR	- True color in color units
SET S	- Settleable solids in milliliters per liter (ML/L) and milligrams per liter (MG/L)
BOD	- Biochemical oxygen demand in milligrams per liter: B = 5 days
SUS S	- Suspended solids in milligrams per liter; 5 = at 105 degrees C
COD	- Chemical oxygen demand in milligrams per liter
V SUS S	- Volatile suspended solids in milligrams per liter
CYANIDE	- Cyanide in milligrams per liter
PHENOLS	- Phenols in milligrams per liter
TOC	- Total organic carbon in milligrams per liter
DOC	- Dissolved organic carbon in milligrams per liter
IODIDE	- Iodide in milligrams per liter
T ODOR	- Threshold odor number at 60 degrees C
BROMIDE	- Bromide in milligrams per liter
SULFITE	- Sulfite in milligrams per liter
T SULF	- Total sulfides in milligrams per liter
D SULF	- Dissolved sulfides in milligrams per liter
CC EXT	- Carbon chloroform extract
CA EXT	- Carbon alcohol extract

TABLE C-3

MISCELLANEOUS ANALYSES OF SURFACE WATER

DATE TIME	SAMP LAR	TEMP EC	DO G.M.	F-PH L-PH	DISC HRS	DEPTH TIME	T+L CHLOR	SET 5 O+G ML/L	RD SIS 5	CD V 4.5 5	CYANIDE PHENOLS	TDC DPC	17010K T 0008	17010K SULFITE	T SILK O SILK	CC EXT CA EXT
AN 0010.00 ANTELOPE LK NR DM ALLEA																
04/25/85 0930	5050 8000	50.0F 85	9.9 2.74	7.2	--	1	--	--	--	5.8 R	3.2	--	--	--	--	--
04/25/85 0945	5050 8000	45.0F 78	9.7 2.74	7.0	--	20	--	--	--	4.8 S	2.1	--	--	--	--	--
AO 0103.00 FEATHER R & NICOLAUG ACSP2																
10/25/84 1200	2163 5050	63 F 90	10.2	7.4	--	--	--	--	--	0.8 R	--	--	--	--	--	--
01/03/85 1145	5050 5050	44 F 91	11.5	7.2	--	--	--	--	--	1.3 R	--	--	--	--	--	--
08/15/85 1100	2163 2163	21.1C 105	7.2	7.8	--	--	--	--	--	1.7 R	--	--	--	--	--	--
AO 6150.00 YURA R NR MARYSVILLE AGRCO																
10/25/84 1000	2163 5050	53 F 89	10.5 60.01	7.1	--	--	--	--	--	1.5 R	--	--	--	--	--	--
08/15/85 1255	2163 2163	18.1C 102	7.8	7.6	--	--	--	--	--	2.0 R	--	--	--	--	--	--
09/10/85 1030	2163 5050	17.0C 96	9.0 54.34	7.4	--	--	--	--	--	1.0 R	--	--	--	--	--	--
AO 6550.00 REAR R NR WHEATLAND ADRAO																
10/25/84 1055	2163 5050	63 F 84	9.9	7.3	--	--	--	--	--	1.1 R	--	--	--	--	--	--
03/28/85 1100	2163 2163	50 F 86	11.7	7.4	--	--	--	--	--	1.1 R	--	--	--	--	--	--
AO 7125.01 AMERICAN R & 16TH ST RR AOSR1																
10/10/84 1100	2163 5050	67.5F 42	8.4	7.1	--	--	--	--	--	--	--	1.7	--	--	--	--
10/10/84 1700	2163 5050	65 F 45	8.9	7.1	--	--	--	--	--	--	--	1.5	--	--	--	--
10/10/84 2300	2163 5050	65 F 44	9.0	7.1	--	--	--	--	--	--	--	1.8	--	--	--	--
10/11/84 0500	2163 5050	65 F 48	8.7	7.1	--	--	--	--	--	--	--	5.1	--	--	--	--
10/11/84 1100	2163 5050	66.5F 47	8.2	6.9	--	--	--	--	--	--	--	5.1	--	--	--	--
AO 7140.10 AMERICAN R & SACTO ST PLT AOSR1																
10/04/84 1130	5050 5050	19.5C 100	9.1	7.1 6.9	--	--	--	--	--	--	--	1.2	--	--	--	--
10/23/84 1045	2163 5050	62 F 47	8.8	7.1	--	--	--	--	--	2.6 R	--	--	--	--	--	--
11/08/84 1120	5050 5050	16.0C 50	9.3	7.0 6.8	--	--	--	--	--	--	--	3.2	--	--	--	--
12/05/84 1120	5050 5050	11.0C 60	11.2	7.3 7.2	--	--	--	--	--	--	--	1.5	--	--	--	--
02/13/85 1320	5050 4050	10.0C 57	11.9	7.3 7.1	--	--	--	--	--	--	--	--	--	--	--	--
02/20/85 1415	2163 5050	61 F 60	11.9	7.6	--	--	--	--	--	1.1 R	--	--	--	--	--	--
08/15/85 1550	2163 2163	22.2C 65	7.8	7.6	--	--	--	--	--	1.3 R	--	--	--	--	--	--
09/26/85 1015	2163 5050	20.3C 56	7.4	7.2	--	--	--	--	--	0.7 R	--	--	--	--	--	--
AO 7149.01 AMERICAN R RL NE STP RL PL AOSR1																
10/10/84 1100	2163 5050	66 F 60	8.8	7.1	--	--	--	--	--	--	--	1.3	--	--	--	--
10/10/84 1700	2163 5050	67 F 44	9.6	7.3	--	--	--	--	--	--	--	1.3	--	--	--	--
10/10/84 2300	2163 5050	65 F 44	8.9	7.1	--	--	--	--	--	--	--	1.9	--	--	--	--
10/11/84 0500	2163 5050	63 F 48	8.1	6.9	--	--	--	--	--	--	--	4.6	--	--	--	--
10/11/84 1100	2163 5050	64 F 48	8.5	6.9	--	--	--	--	--	--	--	2.4	--	--	--	--
AO 7180.00 AMERICAN R RL MINHAUS DM AOSR1																
10/10/84 1100	2163 5050	66.5F 40	8.3	7.0	2250 E	--	--	--	--	--	--	1.2	--	--	--	--
10/10/84 1700	5050 5050	66 F 41	8.3	7.1	2250 E	--	--	--	--	--	--	1.1	--	--	--	--
10/10/84 2300	2163 5050	66 F 40	8.7	7.1	1750	--	--	--	--	--	--	1.1	--	--	--	--
10/11/84 0500	2163 5050	66 F 41	8.4	7.1	1500 E	--	--	--	--	--	--	1.2	--	--	--	--

TABLE C-3 (CONTINUED)
MISCELLANEOUS ANALYSES OF SURFACE WATER

DATE TIME	SAMP LAT	TEMP F	DO G.M.	F-WPH L-PM	DISTCH MILES	DEPTH FEET	T-AL CHLOR	D-6 COLOR	SET S PL/L P/L	NON SUS S	CRO V. SUS S	CYANIDE PHENOL	TIC MCL	IODINE T. MCL	ARSENITE SILFITE	T. SULF O. SULF	CC EXT CA EXT
		40	71.0,00														
10/11/74	2143 1100	66 5040	F 8.4 40	7.1	1500	E	--	--	--	--	--	--	1.2	--	--	--	--
		A1	1020.00														
11/24/74	5050 4900	5050 4900	7.5C 11.4 14.4	7.3	--	--	--	--	--	1.2 R	--	--	--	--	--	--	--
05/06/75	5050 0853	5050 0853	14.4C	--	--	--	--	--	--	1.7 R	--	--	--	--	--	--	--
09/11/75	5040 0915	5040 0915	14.0C 9.6 1.3	7.7	--	--	--	--	--	1.9 R	--	--	--	--	--	--	--
		A7	5250.10														
05/30/74	2143 1045	53 5050	F 8.4 47	7.1	200	E	--	--	--	0.6 R	--	--	--	--	--	--	--
		R0	1174.01														
10/04/74	5050 1025	5050 5040	21.0C 9.0 9.0	7.4 7.2	--	--	2	--	--	--	--	--	1.5	--	--	--	--
11/04/74	5050 1015	5050 5050	13.5C 10.2 9.0	7.2 7.0	--	--	25	--	--	--	--	--	2.5	--	--	--	--
12/05/74	5050 1040	5050 5050	10.5C 11.3 135	7.3 7.5	--	--	8	--	--	--	--	--	2.2	--	--	--	--
		R0	2105.20														
10/04/74	5040 0915	5050 5050	17.5C 9.4 45	7.2 7.2	--	--	2	--	--	--	--	--	1.5	--	--	--	--
11/09/74	5050 0920	5050 5050	16.0C 9.6 42	7.0 7.0	--	--	8	--	--	--	--	--	2.3	--	--	--	--
12/05/74	5050 0945	5050 5050	12.0C 10.4 60	7.2 7.0	--	--	5	--	--	--	--	--	1.9	--	--	--	--
		R0	2390.30														
04/14/75	2163 1015	51.5F 5050	11.4 185	4.0	--	--	--	--	--	2.5 R	--	--	--	--	--	--	--
		R0	7020.00														
10/25/74	5050 0810	5050 5050	15.5C 7.4 340	7.4 7.7	--	--	12	--	--	--	--	--	3.9	--	--	--	--
11/29/74	5050 0940	5050 5050	11.5C 9.2 340	7.1 7.6	--	--	25	--	--	--	--	--	4.4	--	--	--	--
12/12/74	5050 0930	5050 5050	11.0C 9.2 340	7.3 7.6	--	--	12	--	--	--	--	--	3.6	--	--	--	--
02/22/75	5050 1310	5050 5050	54 F 7.4 545	7.4 7.7	--	--	20	--	--	--	--	--	--	--	--	--	--
02/27/75	5050 0915	5050 5050	12.5C 9.6 500	7.4 7.2	--	--	25	--	--	--	--	--	--	--	--	--	--
		A1	1150.30														
10/23/74	2143 0940	57 F 5040	9.1 2.43	7.1	--	--	--	--	--	0.7 R	--	--	--	--	--	--	--
09/15/74	2163 1509	24.7C 2163	5.5 1.73	6.9	--	--	--	--	--	6.4 R	--	--	--	--	--	--	--
09/26/75	2143 0840	21.4C 5050	7.1 1.03	7.9	--	--	--	--	--	0.3 R	--	--	--	--	--	--	--
		R0 C	749.0 133.6														
10/26/74	5050 1003	5050 5050	16.0C 9.4 260	7.4 7.5	--	--	20	--	--	--	--	--	3.3	--	--	--	--
11/25/74	5050 1215	5040 5040	11.0C 10.2 320	7.4 7.6	--	--	25	--	--	--	--	--	4.1	--	--	--	--
12/12/74	5050 1015	5050 5050	11.5C 9.3 310	7.2 7.3	--	--	25	--	--	--	--	--	4.9	--	--	--	--
02/27/75	5050 1015	5050 5050	13.0C 9.4 325	7.4 7.4	--	--	35	--	--	--	--	--	--	--	--	--	--
		R0 R	753.5 129.3														
02/04/75	5050 0930	5050 5050	11.5C 11.2 340	7.3 7.7	--	--	25	--	--	--	--	--	--	--	--	--	--
		R0 R	754.4 134.5														
10/24/74	5040 1113	5040 5040	17.0C 10.4 280	5.0 7.6	--	--	12	--	--	--	--	--	3.7	--	--	--	--
11/29/74	5050 1430	5050 5050	12.0C 10.4 190	7.4 7.4	--	--	30	--	--	--	--	--	3.7	--	--	--	--
12/12/74	5050 1145	5050 5050	11.0C 9.7 280	7.3 7.4	--	--	30	--	--	--	--	--	4.4	--	--	--	--
02/27/75	5050 1145	5050 5050	14.0C 10.3 280	7.5 7.6	--	--	25	--	--	--	--	--	--	--	--	--	--

TABLE C-3 (CONTINUED)
MISCELLANEOUS ANALYSES OF SURFACE WATER

DATE TIME	SAMP LAR	TEMP EC	OD G.M.	F-PH L-PH	DISCH RRAS	DEPTH TURB	T-EL CHLOR	SET 5 O+G PL/1 COLOR MG/L	ADN SHS 5	COO V SUS 5	CYANIDE PHENOL	TOC DOC	IODINE T. ODNR	PHOSPHATE PULFITE	T. SULF D. SULF	CC EXT CA EXT
RD 0 R03.6 127.5 HONKER CUT A ATHERTON RD RR AC100																
10/04/84 0750	5050	18.5C 130	8.8	7.3	--	--	--	5	--	--	--	1.8	--	--	--	--
12/05/84 0650	5050	10.5C 200	9.8	7.2	--	--	--	35	--	--	--	9.0	--	--	--	--
RD 0 R03.6 130.0 LITTLE CONNECTION EMPIRE ATHERTON AC100																
02/06/85 0645	5050	7.0C 265	11.2	7.4	--	--	--	15	--	--	--	--	--	--	--	--
RD 0 R14.6 130.5 MINER SLU A RYDE ISL SCH HWY AC100																
10/24/84 1215	5050	50 F 146	9.5	7.6	--	--	--	--	8 5	--	--	--	--	--	--	--
01/25/85 1330	5050	45 F 204	10.6	7.4	--	--	--	--	13 5	--	--	--	--	--	--	--
04/11/85 0900	5050	63 F 187	9.0	7.6	--	--	--	--	11 5	--	--	--	--	--	--	--
07/29/85 1230	5050	21.5C 165	7.7	7.6	--	--	--	--	18 5	--	--	--	--	--	--	--
RD 0 R15.0 146.2 LINDSAY SLU A HASTINGS CUT AC100																
10/11/84 0950	5050	19.5C 360	8.0	7.6	--	--	--	50	--	--	--	9.4	--	--	--	--
10/24/84 0945	5050	58 F 402	8.6	7.6	--	--	--	--	63 5	--	--	--	--	--	--	--
11/15/84 1045	5050	12.5C 360	8.6	7.5	--	--	--	25	--	--	--	4.7	--	--	--	--
11/16/84 1200	5050	54 F 360	8.8	7.6	--	--	--	--	19 5	--	--	--	--	--	--	--
12/05/84 1045	5050	10.5C 440	7.8	7.4	--	--	--	--	69 5	--	--	--	--	--	--	--
12/06/84 1050	5050	11.0C 450	8.3	7.3	--	--	--	50	--	--	--	9.7	--	--	--	--
01/25/85 1045	5050	43 F 542	9.2	7.4	--	--	--	--	11 5	--	--	--	--	--	--	--
02/13/85 1150	5050	10.5C 360	6.7	7.3	--	--	--	50	--	--	--	--	--	--	--	--
02/22/85 1030	5050	52 F 435	8.6	7.4	--	--	--	--	48 5	--	--	--	--	--	--	--
03/27/85 1200	5050	50 F 480	8.2	8.0	--	--	--	--	43 5	--	--	--	--	--	--	--
04/11/85 1130	5050	66 F 510	9.5	8.0	--	--	--	--	14 5	--	--	--	--	--	--	--
05/17/85 0930	5050	66 F 588	8.1	8.0	--	--	--	--	95 5	--	--	--	--	--	--	--
07/29/85 1010	5050	20.5C 377	7.6	8.0	--	--	--	--	124 5	--	--	--	--	--	--	--
08/15/85 0745	5050	18.0C 305	6.6	8.0	--	--	--	--	18 5	--	0.001	--	--	--	--	--
09/12/85 1130	5050	18.0C 540	4.8	7.7	--	--	--	--	32 5	--	--	--	--	--	--	--
RD 0 R17.0 144.8 CACHE SLU A VALLEJO PUPL AC100																
10/11/84 0930	5050	19.5C 550	7.8	8.2	--	--	--	25	--	--	--	6.0	--	--	--	--
10/24/84 0900	5050	58 F 775	8.2	7.6	--	--	--	--	47 5	--	--	--	--	--	--	--
11/15/84 1000	5050	12.5C 520	7.7	7.4	--	--	--	30	--	--	--	9.0	--	--	--	--
11/16/84 1100	5050	54 F 500	7.8	7.6	--	--	--	--	99 5	--	--	--	--	--	--	--
12/05/84 1000	5050	10.5C 640	8.6	7.6	--	--	--	--	32 5	--	--	--	--	--	--	--
12/06/84 0950	5050	10.5C 715	8.8	7.9	--	--	--	50	--	--	--	8.5	--	--	--	--
01/25/85 1200	5050	45 F 1001	10.8	8.4	--	--	--	--	35 5	--	--	--	--	--	--	--
03/27/85 1030	5050	50 F 257	9.5	7.6	--	--	--	--	301 5	--	--	--	--	--	--	--
04/11/85 1305	5050	66 F 1025	9.5	8.4	--	--	--	--	42 5	--	--	--	--	--	--	--
05/17/85 1015	5050	65 F 549	7.9	8.4	--	--	--	--	71 5	--	--	--	--	--	--	--
07/29/85 0910	5050	19.5C 544	6.0	8.2	--	--	--	--	102 5	--	--	--	--	--	--	--

TABLE C-3 (CONTINUED)
MISCELLANEOUS ANALYSES OF SURFACE WATER

DATE TIME	SAMP ID	TEMP EC	PH G.M.	F-PH L-PH	DISCH M ³ /S	DEPTH TURA	T-L C/LOR	DO ML/L	ML/L	RD S/S	CD V S/S	CYANIDE PHENOLS	TG ODC	IODINE T OODR	PHOSPHATE SILFITE	T SILF O SILF	CC EXT CA EXT
89 D R20,7 132.7 SACRAMENTO P A GREENS LOR AL100																	
10/04/84	5050	17.5C	9.0	7.4	--	--	--	5	--	--	--	--	1.4	--	--	--	--
0620	5050	14.6C	9.7	7.4	--	--	--	8	--	--	--	--	2.1	--	--	--	--
11/04/84	5050	14.6C	9.7	7.4	--	--	--	8	--	--	--	--	2.1	--	--	--	--
0820	5050	14.6C	9.7	7.4	--	--	--	8	--	--	--	--	2.1	--	--	--	--
12/05/84	5050	10.5C	10.9	7.4	--	--	--	13	--	--	--	--	2.4	--	--	--	--
0745	5050	20.0	--	7.4	--	--	--	13	--	--	--	--	2.4	--	--	--	--
02/06/85	5050	11.5C	12.1	7.4	--	--	--	10	--	--	--	--	--	--	--	--	--
1130	5050	17.5	--	7.4	--	--	--	10	--	--	--	--	--	--	--	--	--
89 V R04,4 129.9 AG-OR W-ED FMPIRE T S-SI ATHEPTON R0100																	
02/06/85	5050	6.0C	9.4	7.3	--	--	--	25	--	--	--	--	--	--	--	--	--
0605	5050	25.00	--	7.3	--	--	--	25	--	--	--	--	--	--	--	--	--
89 V R19,2 134.7 AGPI-OR GRAND IS NR WALKER LNOG A0100																	
02/06/85	5050	11.5C	7.5	7.1	--	--	--	25	--	--	--	--	--	--	--	--	--
1030	5050	5.0	--	7.6	--	--	--	25	--	--	--	--	--	--	--	--	--
G7 1645.00 TRICKEE R A TAMOE CTY G0640																	
10/14/84	2163	4.8	7.7	7.1	--	--	--	--	0.4 R	--	--	--	--	--	--	--	--
1003	5050	92	2.16	--	--	--	--	--	--	--	--	--	--	--	--	--	--
04/14/85	2163	10.8C	6.4	7.2	--	--	--	--	0.4 R	--	--	--	--	--	--	--	--
1340	2163	10.8	4.11	--	--	--	--	--	--	--	--	--	--	--	--	--	--
09/16/85	2163	11.2C	6.4	7.4	--	--	--	--	0.6 R	--	--	--	--	--	--	--	--
0845	5050	110	3.08	--	--	--	--	--	--	--	--	--	--	--	--	--	--
G6 3420.20 CARSON R E F A HWY 4 GC340																	
10/31/84	2163	37	11.8	7.5	100 E	--	--	--	1.1 R	--	--	--	--	--	--	--	--
0810	5050	112	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
04/14/85	2163	12.6C	7.4	8.0	--	--	--	--	2.3 R	--	--	--	--	--	--	--	--
0745	2163	132	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10/17/85	2163	13.8C	7.7	9.2	--	--	--	--	0.6 R	--	--	--	--	--	--	--	--
1440	5050	130	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
G0 3240.00 WALKER R, E, NR BRIDGEPORT G0140																	
10/30/84	2163	44	9.1	8.6	31	--	--	--	2.7 R	--	--	--	--	--	--	--	--
1620	5050	143	0.52	--	--	--	--	--	--	--	--	--	--	--	--	--	--
08/14/85	2163	18.7C	5.5	8.6	--	--	--	--	1.8 R	--	--	--	--	--	--	--	--
0945	2163	179	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
09/17/85	2163	13.6C	7.0	7.9	93.4	--	--	--	2.3 R	--	--	--	--	--	--	--	--
1100	5050	210	0.88	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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TABLE C-4
NUTRIENT ANALYSES OF SURFACE WATER

Lab and Sampler Agency Code

2163	- California Department of Water Resources for the State Water Resources Control Board
5050	- California Department of Water Resources
8000	- University of Nevada, Desert Research Institute Laboratory

Abbreviations

TIME	- Pacific Standard Time on a 24-hour clock
GH	- Instantaneous gage height, in feet, above an established datum
Q	- Instantaneous discharge in cubic feet per second
TEMP	- Water temperature at time of sampling in degrees Fahrenheit (F) or Celsius (C)
Depth	- Depth, in feet, when measurement was taken
F EC	- Field determination of electrical conductance in microsiemens at 25°C
F PH	- Field determination of acidity or alkalinity
TURB	- Jackson turbidity units measured with a Hach nephelometer, (A); if in the field, (F)
F-CO2	- Field determination of carbon dioxide in milligrams per liter
P ALK	- Field determination of alkalinity (Phenol)
T ALK	- Field determination of alkalinity (Total)

(Nitrogen Series as N)

D N02+N03	- Dissolved nitrite and nitrate
D N02	- Dissolved nitrite
D N03	- Dissolved nitrate
D ORG N	- Dissolved organic nitrogen
T ORG N	- Total organic nitrogen
D NH 3	- Dissolved ammonia
T NH 3	- Total ammonia
T (NH3+ORG N)	- Total ammonia plus organic nitrogen

(Phosphorus Series as P)

DIS.A.H.P04	- Dissolved acid hydrolyzable phosphate
D O-P04	- Dissolved orthophosphate
T O-P04	- Total orthophosphate
D TOT P	- Dissolved total phosphorus
T TOT P	- Total phosphorus

TABLE C-4
NUTRIENT ANALYSES OF SURFACE WATER

DATE TIME	SAMP LAR	G.W. G	TEMP DEPTH	F EC F IN	TURB F CO2	FIELD			CONSTITUENTS IN MILLIGRAMS PER LITER							D-PP4 T D-PP4	D TOT R T TOT P
						P ALK T ALK	D NC D N03	D ND2 D N03	D OGC T OGC N	D NH3 T NH3	D NH4 T NH4	D IS A.M.P04					
AN		0010.00		ANTELOPE LK NR DN				A11E4									
04/25/85 0930	5050 8000	2.74	50.0F 1	85 7.2		0 35	--	--	0.00	C.4	0.00	--	--	0.00	--	0.02	
04/25/85 0945	5050 8000	2.74	45.0F 20	74 7.0		0 20	0.00	--	--	0.5	0.00	--	--	0.00	--	0.03	
AO		2170.00		SACRAMENTO R A FREMONT WEIR V END				A02P0									
10/25/84 1330	5050 5050	58	F	174 7.6			0.14	--	--	--	0.02	--	--	0.02	--	0.04	
12/20/84 1400	5050 5050	24.01	48	F	7.3		0.19	--	--	--	0.02	--	--	0.02	--	0.12	
02/19/85 1230	5050 5050	55	F	212 7.8			0.20	--	--	--	0.01	--	--	0.02	--	0.05	
04/26/85 1345	5050 5050	63.7F		177 7.8			0.10	--	--	--	0.02	--	--	0.02	--	0.04	
06/26/85 1250	5050 5050	73.0F		212 7.8			0.07	--	--	--	0.02	--	--	0.02	--	0.04	
08/15/85 0945	5050 5050	15.75	20.7C	109 8.0			0.08	--	--	--	0.02	--	--	0.03	--	0.08	
AO		2230.02		SACRAMENTO R AA COLUSA BASIN DR				A0740									
05/29/85 1125	5050 5050	19.0C		184 7.8	84F		0.02	--	--	--	--	--	--	0.01	--	0.05	
AO		2630.00		SACRAMENTO R A HAMILTON CITY				A1390									
05/29/85 0745	5050 5050	29.31	15.0C	146 7.6	74F		0.05	--	--	--	--	--	--	0.00	--	0.03	
AO		2759.00		TENAMA COLUSA CANAL NR RED BLIFF				A1380									
05/22/85 1215	5050 5050	1403	14.8C	132	34F		0.05	--	--	--	--	--	--	0.01	--	0.03	
AO		2785.00		SACRAMENTO R A REND AR				A1740									
05/23/85 0655	5050 5050	18.98	14.0C	137 7.5	34F		0.06	--	--	--	--	--	--	0.01	--	0.03	
AO		2926.00		R=0 1500 DR SLU TO SAC SLU NR KARNAK				A0740									
06/26/85 1050	5050 5050	25.0C		466 7.6	194F		0.13	--	--	--	--	--	--	0.05	--	0.18	
AO		2927.00		SUTTER RP A R=0 1500 PP A KARNAK				A0740									
02/25/85 1240	5050 5050	15.23	15.0C	406 8.0			0.12	--	--	--	--	--	--	0.03	--	0.12	
AO		2947.10		COLUSA BAS OR NR KNIGHTS LDC				A0791									
04/29/85 1045	5050 5050	19.5C		402 7.9	824F		0.44	--	--	--	--	--	--	0.09	--	0.18	
AO		2955.00		R=0 787 DRAINAGE TO SACRAMENTO R				A0740									
08/28/85 1210	5050 5050	23.5C		590 7.4	274F		0.02	--	--	--	--	--	--	0.07	--	0.16	
AO		2965.00		RD TO OR TO SACRAMENTO R				A0740									
05/29/85 1010	5050 5050	17.0C		328 7.7	504F		0.20	--	--	--	--	--	--	0.06	--	0.15	
AO		2972.00		BUTTE SLU NR MARIOLAN				A07C0									
08/28/85 0920	5050 5050	45.28	23.0C	274 7.2	74F		0.04	--	--	--	--	--	--	0.04	--	0.09	
AO		3500.00		INDHES C A PASSENTA				A1390									
05/22/85 1335	5050 5050	2.67	26.2C	185 8.2	54F		0.01	--	--	--	--	--	--	0.00	--	0.01	
AO		4420.50		MILL C NR MD NR LOS MOLINOS				A1390									
06/24/85 0735	5050 5050	21.0C		196 7.3	24F		0.04	--	--	--	--	--	--	0.01	--	0.02	
AO		5105.00		FEATHER R A NICOLAUS				A0582									
10/25/84 1700	5050 5050	63	F	90 7.4			0.04	--	--	--	0.02	--	--	0.01	--	0.03	
12/20/84 1230	5050 5050	24.40	48	F	7.3		0.07	--	--	--	0.01	--	--	0.01	--	0.02	
02/19/85 1130	5050 5050	53	F	103 7.4			0.08	--	--	--	0.01	--	--	0.01	--	0.04	
04/26/84 1215	5050 5050	64.5F		90 7.6			0.04	--	--	--	0.02	--	--	0.01	--	0.05	
06/26/85 1100	5050 5050	21.55	73.0F	111 7.8			0.03	--	--	--	0.01	--	--	0.01	--	0.04	
08/15/85 1100	5050 5050	21.8C		105 7.8			0.01	--	--	--	0.01	--	--	0.00	--	0.01	

TABLE C-4 (CONTINUED)
NUTRIENT ANALYSES OF SURFACE WATER

DATE TIME	SAMP LÉ	CÐ Q	TEMP DEPTH	F EC F PM	TURB F CÊ	FIELD P ALK T ALK	N NO2 + N NO3	N NO2 N NO3	CONSTITUENTS IN TÉC N TÉC N	CONSTITUENTS IN TÉC N TÉC N	PER LITER PER LITER	NÉC NÉC	NÉC NÉC	NÉC NÉC	NÉC NÉC	NÉC NÉC	NÉC NÉC
A1 R 102.0 159.1 1004 CM RES																	
05/23/85	5050		17.1C	86	34F		0.00	--	--	0.00		0.0	--	0.00	--	0.02	--
1030	5050		0	7.4													
05/23/85	5050		11.5C	88	14F		0.00	--	--	0.01		0.0	--	0.00	--	0.07	--
1030	5050		05	7.6													
09/20/85	5050		12.5C	94	14F		0.01	--	--	0.00		0.0	--	0.00	--	0.03	--
0915	5050		0	7.7													
09/20/85	5050		10.0C	93	24F		0.01	--	--	0.00		0.0	--	0.00	--	0.04	--
0915	5050		72	7.6													
A1 1020.00 PIT R NR MONTGOMERY C																	
11/28/84	5050		7.5C	145	94F		0.11	--	--	--		--	--	0.03	--	--	--
0900	5050			7.3													
05/08/85	5050		14.5C	155	54F		0.08	--	--	--		0.6	--	--	--	0.08	--
0930	5050			8.2													
A1 4400.00 PIT R SF NR LIVELEY																	
09/18/85	5050		2.11	13.0C	120	314F	0.01	--	--	--		0.7	--	0.04	--	0.08	--
1314	5050			8.2													
A2 L 043.2 229.0 SHASTA LK A DAM																	
10/24/84	5050		16.4C		14F		0.03	--	--	0.01		--	--	0.02	--	--	--
0930	5050		0	7.4								0.1	--	--	--	0.02	--
10/24/84	5050				74F		0.16	--	--	0.01		--	--	0.02	--	--	--
0930	5050		426	7.0								0.1	--	--	--	0.04	--
03/24/85	5050		21.0C	115	14F		0.01	--	--	0.01		--	--	0.00	--	--	--
0950	5050		0	7.9								0.0	--	--	--	0.00	--
05/24/85	5050		8.3C	132	24F		0.14	--	--	0.01		--	--	0.01	--	--	--
0850	5050		443	7.3								0.1	--	--	--	0.03	--
09/17/85	5050		20.3C	132	14F		0.00	--	--	0.01		--	--	0.00	--	--	--
0800	5050		0	7.6								0.1	--	--	--	0.02	--
09/17/85	5050		46.0F	137	24F		0.14	--	--	0.02		--	--	0.01	--	--	--
0800	5050		364	7.0								0.1	--	--	--	0.04	--
A2 L 044.3 227.3 SHASTA LK A LITTLE SOUW C INLET																	
10/18/84	5050		17.8C	126	14F		0.01	--	--	0.04		--	--	0.00	--	--	--
1100	5050		0	7.3								0.0	--	--	--	0.02	--
10/18/84	5050		17.3C	125	14F		0.01	--	--	0.00		--	--	0.00	--	--	--
1100	5050		79	7.3								0.0	--	--	--	0.02	--
A2 L 044.9 212.1 SHASTA LK PIT R NR JONES VALLEY																	
10/15/84	5050		9.5C	142	64F		0.18	--	--	0.08		--	--	0.02	--	--	--
0830	5050		230	6.6								0.2	--	--	--	0.09	--
10/15/84	5050		17.7C	129	24F		0.08	--	--	0.01		--	--	0.01	--	--	--
0845	5050		0	7.3								0.1	--	--	--	0.02	--
A2 L 045.4 229.9 SHASTA LK LITTLE BACKRONE C INLET																	
10/17/84	5050		15.5C	124	24F		0.08	--	--	0.00		--	--	0.02	--	--	--
1100	5050		98	7.1								0.0	--	--	--	0.02	--
10/17/84	5050		17.0C	124	14F		0.02	--	--	0.00		--	--	0.01	--	--	--
1100	5050		0	7.3								0.0	--	--	--	0.02	--
A2 L 046.4 212.9 SHASTA LK SOUW C RL ZIMC C																	
10/15/84	5050		17.7C	131	14F		0.01	--	--	0.01		--	--	0.00	--	--	--
1100	5050		0	7.3								0.1	--	--	--	0.02	--
10/15/84	5050		9.7C	144	34F		0.20	--	--	0.01		--	--	0.01	--	--	--
1100	5050		226	6.8								0.0	--	--	--	0.03	--
A2 L 046.4 217.6 SHASTA LK MCCLLOUD R ARM																	
10/17/84	5050		6.0C		74F		0.18	--	--	0.02		--	--	0.02	--	--	--
0830	5050		298	7.0								0.1	--	--	--	0.04	--
10/17/84	5050		16.0C		14F		0.02	--	--	0.01		--	--	0.01	--	--	--
0930	5050		0	7.4								0.1	--	--	--	0.02	--
A2 L 048.5 222.8 SHASTA LK SACRAMENTO R ARM																	
10/18/84	5050		16.3C		14F		0.02	--	--	0.01		--	--	0.01	--	--	--
0930	5050		0	7.3								0.1	--	--	--	0.03	--
10/18/84	5050		6.8C		14F		0.16	--	--	0.01		--	--	0.02	--	--	--
0830	5050		282	6.7								0.1	--	--	--	0.03	--
A2 L 116.8 219.7 LK SISKIYOU NR MT SHASTA																	
05/22/85	5050		17.0C	90	14F		0.00	--	--	0.00		--	--	0.00	--	--	--
1645	5050		0	7.5								0.1	--	--	--	0.01	--
05/22/85	5050		7.0C	103	24F		0.01	--	--	0.04		--	--	0.00	--	--	--
1445	5050		161	7.3								0.1	--	--	--	0.01	--
09/19/85	5050		16.4C	127	14F		0.01	--	--	0.00		--	--	0.00	--	--	--
1440	5050		0	7.8								0.1	--	--	--	0.02	--
09/19/85	5050		7.4C	107	24F		0.14	--	--	0.01		--	--	0.01	--	--	--
1440	5050		164	7.0								0.0	--	--	--	0.03	--

TABLE C-4 (CONTINUED)
NUTRIENT ANALYSES OF SURFACE WATER

DATE TIME	SAMP LAR	G.M. Q	TEMP DEPTH	F EC F PH	TURB F CO2	FIELD P ALK T ALK	D NO2 + NO3	O NO2 O NO3	CONSTITUENTS IN MILLIGRAMS PER LITER							O N-PO4 T N-PO4	O TGT P T TGT P
									O ORG N T ORG N	O NH3 T NH3	O NH3 + ORG N	O NH3 + S.M.P.O4					
AR 1500.00			KELSEY C NR KELSEYVILLE						AGADA CONTINUED								
03/07/85	5050		6.0C	262	2AF	--	--	--	--	--	--	0.01	--	0.01	--	0.02	--
1100	5050			7.6			0.01										
04/03/85	5050		10.5C	234	2AF	--	--	--	--	--	--	0.0	--	0.00	--	0.01	--
0730	5050			7.4			0.00										
05/08/85	5050		18.0C	320	1AF	--	--	--	--	--	--	0.0	--	0.01	--	0.02	--
1635	5050			7.4			0.00										
06/04/85	5050		21.5C	310	1AF	--	--	--	--	--	--	0.1	--	0.01	--	0.02	--
1530	5050			8.0			0.01										
07/09/85	5050		24.0C	335	1AF	--	--	--	--	--	--	0.1	--	0.01	--	0.03	--
0955	5050			7.6			0.01										
08/06/85	5050		26.5C	350	0AF	--	--	--	--	--	--	0.1	--	0.03	--	0.03	--
1420	5050			7.9			0.02										
09/03/85	5050		24.0C	332	3AF	--	--	--	--	--	--	0.0	--	0.02	--	0.03	--
1415	5050			7.6			0.00										
09/30/85	5050		20.5C	290	1AF	--	--	--	--	--	--	0.1	--	0.02	--	0.02	--
1400	5050			7.6			0.00										
AR 5601.00			KELSEY C AR HIGH VLY C						AGADA								
10/04/84	5050		13.0C	120	1AF	--	--	--	--	--	--	0.0	--	0.01	--	0.02	--
0840	5050			7.3			0.02										
11/06/84	5050		11.0C	140	3AF	--	--	--	--	--	--	0.1	--	0.01	--	0.03	--
1400	5050			7.4			0.00										
12/04/84	5050		7.0C	135	6AF	--	--	--	--	--	--	0.1	--	0.01	--	0.01	--
1145	5050			7.4			0.09										
01/07/85	5050		6.5C	175	23AF	--	--	--	--	--	--	0.2	--	0.01	--	0.03	--
1300	5050			7.3			0.04										
02/04/85	5050		5.5C	181	1AF	--	--	--	--	--	--	0.1	--	0.01	--	0.01	--
1230	5050			7.4			0.03										
03/07/85	5050		6.0C	165	2AF	--	--	--	--	--	--	0.1	--	0.01	--	0.01	--
1210	5050			7.6			0.02										
04/01/85	5050		12.0C	149	3AF	--	--	--	--	--	--	0.0	--	0.00	--	0.01	--
1145	5050			7.7			0.03										
05/08/85	5050		17.0C	170	1AF	--	--	--	--	--	--	0.0	--	0.01	--	0.01	--
1530	5050			7.7			0.00										
06/04/85	5050		17.0C	160	1AF	--	--	--	--	--	--	0.1	--	0.02	--	0.02	--
1200	5050			7.8			0.03										
07/09/85	5050		22.0C	150	2AF	--	--	--	--	--	--	0.1	--	0.01	--	0.02	--
1200	5050			8.0			0.01										
08/06/85	5050		20.0C	147	1AF	--	--	--	--	--	--	0.1	--	0.00	--	0.02	--
1000	5050			7.5			0.01										
09/03/85	5050		20.0C	128	1AF	--	--	--	--	--	--	0.1	--	0.01	--	0.01	--
1245	5050			7.5			0.00										
09/30/85	5050		15.0C	132	1AF	--	--	--	--	--	--	0.1	--	0.01	--	0.01	--
1130	5050			7.5			0.02										
AR 5610.00			HIGH VALLEY C AR KELSEY C						AGADA								
10/04/84	5050		14.5C	330	0AF	--	--	--	--	--	--	0.0	--	0.01	--	0.02	--
0900	5050			7.4			0.02										
11/06/84	5050		11.5C	300	2AF	--	--	--	--	--	--	0.0	--	0.03	--	0.03	--
1400	5050			7.4			0.03										
12/04/84	5050		7.0C	197	2AF	--	--	--	--	--	--	0.1	--	0.00	--	0.01	--
1145	5050			7.7			0.02										
01/07/85	5050		6.5C	227	39AF	--	--	--	--	--	--	0.1	--	0.00	--	0.03	--
1240	5050			7.6			0.01										
02/04/85	5050		5.5C	280	0AF	--	--	--	--	--	--	0.1	--	0.00	--	0.01	--
1230	5050			7.6			0.02										
03/07/85	5050		8.0C	230	2AF	--	--	--	--	--	--	0.0	--	0.00	--	0.01	--
1230	5050			7.6			0.01										
04/01/85	5050		12.0C	184	2AF	--	--	--	--	--	--	0.0	--	0.00	--	0.00	--
1130	5050			7.6			0.01										
05/08/85	5050		18.0C	240	17AF	--	--	--	--	--	--	0.2	--	0.00	--	0.06	--
1515	5050			7.7			0.00										
06/04/85	5050		16.5C	305	1AF	--	--	--	--	--	--	0.1	--	0.01	--	0.01	--
1145	5050			7.9			0.02										
07/09/85	5050		20.5C	340	1AF	--	--	--	--	--	--	0.2	--	0.00	--	0.01	--
1130	5050			7.9			0.01										
08/06/85	5050		16.5C	360	1AF	--	--	--	--	--	--	0.0	--	0.00	--	0.01	--
0945	5050			7.8			0.02										
09/03/85	5050		18.5C	360	1AF	--	--	--	--	--	--	0.1	--	0.00	--	0.01	--
1215	5050			7.3			0.00										
09/30/85	5050		15.5C	345	1AF	--	--	--	--	--	--	0.0	--	0.00	--	0.01	--
1100	5050			7.5			0.00										

TABLE C-4 (CONTINUED)
NUTRIENT ANALYSES OF SURFACE WATER

DATE TIME	SAMP LAB	G.W. 0	TEMP DEPTH	F EC F PH	TURB F COZ	FIELD P ALK T ALK	O NO2 + O NO3	O NO2 O NO3	CONSTITUENTS IN MILLIGRAMS PER LITER					O 0-PH4 I 0-PH4	O TOT P T TOT P
									T ORG N	T NH3	T NH3	ORG N	1,4-PH4		
AR 561A.00 ROTILE ROCK PWR PLANT NR GLENAROCK															
AD404															
07/27/85	5050						0.01			70.					
1430	5050						0.00								0.00
08/15/85	5050						0.01			135.					0.23
1330	5050						0.01								
08/15/85	5050						0.01			72.					0.02
1340	5050						0.00								
09/03/85	5050						0.02			113.					0.08
1115	5050						0.07								
09/12/85	5050						0.02			94.					0.11
5050							0.05								
09/12/85	5050						0.00			59.					0.14
5050							0.03								
AR 5701.00 KELSEY C & GLENAROCK															
AD404															
10/04/84	5050		12.0C	111	24F									0.01	
0715	5050			7.3			0.01					0.1			0.02
11/06/84	5050		11.0C	115	54F		0.00							0.01	
1530	5050			7.4			0.01					0.2			0.02
12/04/84	5050		8.5C	100	64F									0.01	
1545	5050			7.3			0.10					0.1			0.01
01/07/85	5050		7.5C	110	154F									0.01	
1430	5050			7.5			0.01					0.1			0.02
02/04/85	5050		6.0C	110	24F									0.01	
1340	5050			7.4			0.00					0.1			0.01
03/07/85	5050		6.0C	115	44F									0.00	
1320	5050			7.4			0.00					0.1			0.01
04/11/85	5050		14.5C	102	54F									0.00	
1430	5050			7.5			0.01					0.0			0.01
05/08/85	5050		13.5C	120	34F									0.01	
1445	5050			7.6			0.00					0.0			0.01
06/04/85	5050		15.0C	130	34F									0.01	
1300	5050			7.7			0.01					0.1			0.01
07/09/85	5050		19.5C	122	34F									0.01	
1545	5050			7.6			0.00					0.2			0.01
08/06/85	5050		18.0C	120	24F									0.00	
1145	5050			7.8			0.01					0.1			0.01
09/03/85	5050		15.0C	120	34F									0.01	
1340	5050			7.5			0.00					0.1			0.01
09/30/85	5050		13.0C	120	24F									0.00	
1300	5050			7.4			0.00					0.1			0.01
AR 5710.00 ALDER C & GLENAROCK															
AD404															
10/04/84	5050		11.0C	75	14F									0.01	
0830	5050			7.2			0.01					0.1			0.02
11/06/84	5050		10.0C	96	54F		0.00							0.01	
1500	5050			7.2			0.02					0.1			0.02
12/04/84	5050		7.5C	110	64F									0.00	
1530	5050			7.3			0.04					0.1			0.01
01/07/85	5050		7.0C	122	94F									0.01	
1400	5050			7.5			0.02					0.1			0.02
02/04/85	5050		7.0C	119	14F									0.01	
1330	5050			7.2			0.01					0.1			0.01
03/07/85	5050		7.0C	104	14F									0.00	
1335	5050			7.3			0.02					0.0			0.01
04/01/85	5050		14.0C	117	24F									0.00	
1400	5050			7.6			0.01					0.0			0.01
05/08/85	5050		17.5C	100	14F									0.01	
1425	5050			7.4			0.00					0.0			0.01
06/04/85	5050		17.0C	105	14F									0.01	
1245	5050			7.6			0.01					0.1			0.02
07/09/85	5050		23.0C	88	24F									0.02	
1230	5050			7.7			0.01					0.1			0.02
08/06/85	5050		20.5C	82	14F									0.02	
1130	5050			7.5			0.01					0.1			0.02
09/03/85	5050		20.0C	73	14F									0.01	
1520	5050			7.4			0.00					0.0			0.02
09/30/85	5050		14.5C	80	14F									0.01	
1230	5050			7.6			0.00					0.1			0.02
AR 2500.00 CALAVERAS R NB JENNY LIND															
R03C0															
04/18/85	2143		51.5F	185										0.00	
1015	5050			8.0											

TABLE C-4 (CONTINUED)
NUTRIENT ANALYSES OF SURFACE WATER

DATE TIME	SAMP LAB	G.W. DEPTH	TEMP DEPTH	FEC FPH	TURB FCOZ	FIELD P ALV T ALV	NO2 + NO3	NO2 NO3	CONSTITUENTS IN F CPG N T FPG N T	PHOSPHORUS P NH3 + P N	PER LITER NIT P N	NO-PHOS P N	NO-PHOS P N
R1 1150.00 COSUMNES R & MICHIGAN RAP R0401													
10/23/84 0450	21A3 5050	2.43	57 F	75 7.1			0.14	--	--	--	--	0.01	--
08/15/84 1500	21A3 5050	1.73	28.7C	150 A.C			0.01	--	--	--	--	0.11	--
G3 L 033.4 048.4 EAGLE LK STA NO 1A G08C2													
11/07/84 1235	50A0 5050		7.5C 0	766 8.9	14F		0.03	--	--	--	1.2	--	0.04
04/23/85 1435	5050 5050		8.2C 0	785 9.1	24F		0.03	--	--	--	1.1	--	0.05
06/14/85 1350	5050 5050		20.7C 0	761 8.9	14F		0.02	--	--	--	1.1	--	0.04
08/02/85 1345	5050 5050		20.0C 0	774 9.1	14F		0.00	--	--	--	1.0	--	0.04
09/19/85 1335	5050 5050		15.3C 0	790 9.1	14F		0.00	--	--	--	1.2	--	0.07
G3 L 035.2 045.1 EAGLE LK STA NO 11 G08C2													
11/07/84 0910	5050 5050		7.5C 0	746 8.9	14F		0.03	--	--	--	1.4	--	0.07
04/23/85 0830	5050 5050		8.6C 0	780 8.9	24F		0.03	--	--	--	1.2	--	0.04
06/14/85 0835	5050 5050		10.5C 0	764 8.9	14F		0.01	--	--	--	1.2	--	0.04
06/14/85 0845	5050 5050		11.1C 0	760 8.9	14F		0.02	--	--	--	1.5	--	0.13
08/02/85 0835	5050 5050		10.8C 0	775 9.1	14F		0.00	--	--	--	1.0	--	0.03
08/02/85 0835	5050 5050		13.1C 0	779 8.7	34F		0.00	--	--	--	1.7	--	0.22
09/19/85 0825	5050 5050		15.0C 0	788 9.0	24F		0.00	--	--	--	1.2	--	0.07
09/19/85 0835	5050 5050		15.0C 0	787 9.0	24F		0.00	--	--	--	1.4	--	0.07
G3 L 035.5 046.8 EAGLE LK STA NO 2A G08C2													
08/02/85 0930	5050 5050		19.4C 0	766 9.1	24F		0.00	--	--	--	1.0	--	0.03
08/02/85 0930	5050 5050		13.8C 54	781 8.7	14F		0.06	--	--	--	1.5	--	0.10
09/19/85 0915	5050 5050		15.3C 0	788 9.1	14F		0.00	--	--	--	1.2	--	0.06
09/19/85 0925	5050 5050		14.8C 0	792 9.1	34F		0.00	--	--	--	1.5	--	0.06
G3 L 036.9 044.7 EAGLE LK STA NO 10A G08C2													
11/07/84 1145	5050 5050		5.2C 0	779 9.0	14F		0.04	--	--	--	1.2	--	0.09
04/23/85 1225	5050 5050		9.3C 0	757 9.1	24F		0.03	--	--	--	1.2	--	0.05
06/14/85 1225	5050 5050		19.4C 0	767 9.0	14F		0.01	--	--	--	1.2	--	0.03
08/02/85 1240	5050 5050		20.0C 0	792 9.1	14F		0.00	--	--	--	1.0	--	0.04
09/19/85 1210	5050 5050		15.0C 0	789 9.1	14F		0.00	--	--	--	1.1	--	0.06
G3 L 038.6 044.1 EAGLE LK STA NO 9A G08C2													
09/19/85 1150	5050 5050		14.2C 0	800 9.1	14F		0.00	--	--	--	1.1	--	0.06
G3 L 040.4 046.0 EAGLE LK STA NO 8A G08C2													
11/07/84 1100	5050 5050		4.8C 0	795 9.0	14F		0.01	--	--	--	1.2	--	0.04
04/23/85 1110	5050 5050		10.2C 0	755 9.1	24F		0.00	--	--	--	1.2	--	0.04
06/14/85 1135	5050 5050		20.4C 0	778 9.0	14F		0.00	--	--	--	0.8	--	0.03
08/02/85 1200	5050 5050		20.0C 0	815 9.1	14F		0.00	--	--	0.00	1.2	0.07	0.06
09/19/85 1170	5050 5050		13.2C 0	834 9.3	14F		0.00	--	--	--	1.2	--	0.06
G3 L 041.9 041.2 EAGLE LK STA NO 7A G08C2													
11/07/84 1604	5050 5050		5.0C 0	815 9.0	14F		0.00	--	--	--	1.5	--	0.03
04/23/85 1600	5050 5050		10.0C 0	759 8.9	24F		0.00	--	--	--	1.2	--	0.04
06/14/85 1034	5050 5050		20.0C 0	784 9.1	14F		0.00	--	--	--	1.1	--	0.07

TABLE C-4 (CONTINUED)
NUTRIENT ANALYSES OF SURFACE WATER

DATE TIME	SAMP L#	C.M. 0	TEMP DEPTH	F EC F PH	TURB F CO2	FIELD D ALK T ALK	O NO2 + NO3	O NO2 NO3	CONSTITUENTS IN MILLIGRAMS PER LITER						O N-PH4 T N-PH4	O TOT P T TOT P
									O ORG N T ORG N	O NH3 T NH3	T NH3 + ORG N	AM.P04	AL.P04			
G3 L 041.9 041.2																
EAGLE LK STA NN 7A						GORC2 CONTINUED										
08/01/85	5053		19.1C	921	14F		0.00	--	--	--	--	1.1	--	--	--	0.03
1043	5050		0	9.1												
09/10/85	5050		13.0C	860	14F		0.00	--	--	--	--	1.3	--	--	--	0.03
1013	5050		0	9.3												
G3 1140.00																
PINE C A EAGLE LK NR SUSANVILLE						GORC1										
04/22/85	5050	3.48	9.0C	84	44F		3.00	--	--	0.02	--	0.5	--	0.00	--	0.02
1110	5050			7.5												
G3 2505.00																
PAPONSE C NR SUSANVILLE						GOR00										
04/22/85	5050		21.0C	209	44F		0.00	--	--	0.00	--	0.1	--	0.00	--	0.02
1440	5050			8.2												
G3 2510.00																
MERRILL C A EAGLE LK NR SUSANVILLE						GORC1										
04/22/85	5050		19.0C	93	64F		0.00	--	--	0.00	--	0.1	--	0.00	--	0.00
1405	5050			7.1												
G3 2515.00																
MERRILL C RL LITTLE MERRILL FIAT						GG0C1										
04/22/85	5050		15.0C	74	74F		0.00	--	--	0.00	--	0.1	--	0.00	--	0.00
1240	5050		2 F	7.6												
G7 1645.00																
TRICKEE R A TAMDE CTY						GG0#0										
10/14/84	2163	2.1A	48 F	92			0.00	--	--	--	--	--	--	0.00	--	--
1004	5050			7.1												
08/14/85	2163	4.11	19.8C	108			0.00	--	--	--	--	--	--	0.00	--	--
1340	5050			7.2												
GA 3420.20																
CARSON R E F A HWY 4						G03A0										
10/31/84	2163		37 F	112			0.01	--	--	--	--	--	--	0.02	--	--
0910	5050	100 E		7.5												
04/14/85	2163		12.4C	132			0.02	--	--	--	--	--	--	0.02	--	--
0745	2163			8.0												
G9 3200.00																
WALKER R & E, NR BRIDGEPORT						G01A0										
10/10/84	2163	0.52	44 F	153			0.00	--	--	--	--	--	--	0.00	--	--
1420	5050	31		8.6												
04/14/85	2163	1.85	18.7C	179			0.04	--	--	--	--	--	--	0.00	--	--
0945	2163			8.6												

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TABLE C-5

PESTICIDE ANALYSES OF SURFACE WATER

Lab and Sampler Agency Code

5050 - California Department of Water Resources

Abbreviations

TIME - Pacific Standard Time on a 24-hour clock
 TEMP - Water temperature at time of sampling in degrees Celcius (C)
 EC - Electrical conductance in microsiemens at 25°C
 DO - Dissolved oxygen content in milligrams per liter
 pH - Measure of acidity or alkalinity of water

Pesticide Codes

Chlorinated Hydrocarbons

<u>Code</u>	<u>Explanation or common name</u>
CHYDROCARB	Chlorinated hydrocarbon compounds used for zero concentrations; not total
DACTHAL	Dacthal, dimethyletra chloroterephthalate
UNKNOWNNS	Unidentified chlorinated hydrocarbon compounds (reported as DDT) one or more

Organic Phosphorous

<u>Code</u>	<u>Explanation</u>
ORGANICP	Organic phosphorous compounds; used for zero concentrations, not total

Other

<u>Code</u>	<u>Explanation Or Common Name</u>
ALTRAZSIMAZ	Atrazine and/or Simazine
BRDCLMETHN	Bromodichloromethane
BROMOFORM	Bromoform
CAPTAN	Captan
CHLOPYRIFS	Chlorpyrifos, Dursban
CHLOROFORM	Chloroform
DBRCLMETH	Dibromochloromethane
DIAZINON	Diazinon
PARATHION	Parathion
PRGHALOCRB	Purgable halocarbons; used for zero concentrations, not total
2,4D	Includes acid, salts, and esters

PESTICIDE ANALYSES OF SURFACE WATER
COMPOUNDS REPORTED IN MILLIGRAMS PER LITER
CHLORINATED HYDROCARBON ORGANIC PHOSPHORUS

197

TABLE C-5 (CONTINUED)

PESTICIDE ANALYSES OF SURFACE WATER						
COMPOUNDS REPORTED IN MILLIGRAMS PER LITER						
DATE TIME	SAMP LAB	TEMP °F	DO °C	CHLORINATED HYDROCARBON		OTHER
			RO V R03.4 129.9	ACR-OR W-ED EMPIRE T S-SI ATHEPTON	B0100	
03/04/85	5050	10.50	7.6			.00010 ATRATSEPA7
0945	5050	2200	7.3			.00002 DIAZINON
						.00000 240
						.00000 PRGHALOCAB
			PQ V R07.9 134.7	ACR-OR TYLER IS NY VORPANS LANG	AC100	
03/27/85	5050	11.50	7.9			.00000 PRGHALOCAB
1249	5050	740	6.8			.00000 240
						.00005 ATRATSEPA7
						.00002 DIAZINON
			RO V R13.2 135.7	ACR-OR GRANT IS NY WALKER LNDR	AC100	
03/04/85	5050	12.50	5.3	.00000 CHYROCARR		.00003 DIAZINON
1100	5050	400	6.9			.00000 PHENITVER
						.00000 PRGHALOCAB

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TABLE C-6
SUPPLEMENTAL MINOR ELEMENT ANALYSES OF SURFACE WATER

Lab and Sampler Agency Code

5050 - California Department of Water Resources

Abbreviations

TIME	- Pacific Standard Time on a 24-hour clock
DEPTH	- Depth in feet at which sample was taken
TEMP	- Water temperature at time of sampling in degrees Celcius (C)
EC	- Electrical conductance in microsiemens at 25°C
D	- Dissolved
pH	- Measure of acidity or alkalinity of water
T	- Total



APPENDIX D

GROUND WATER MEASUREMENTS

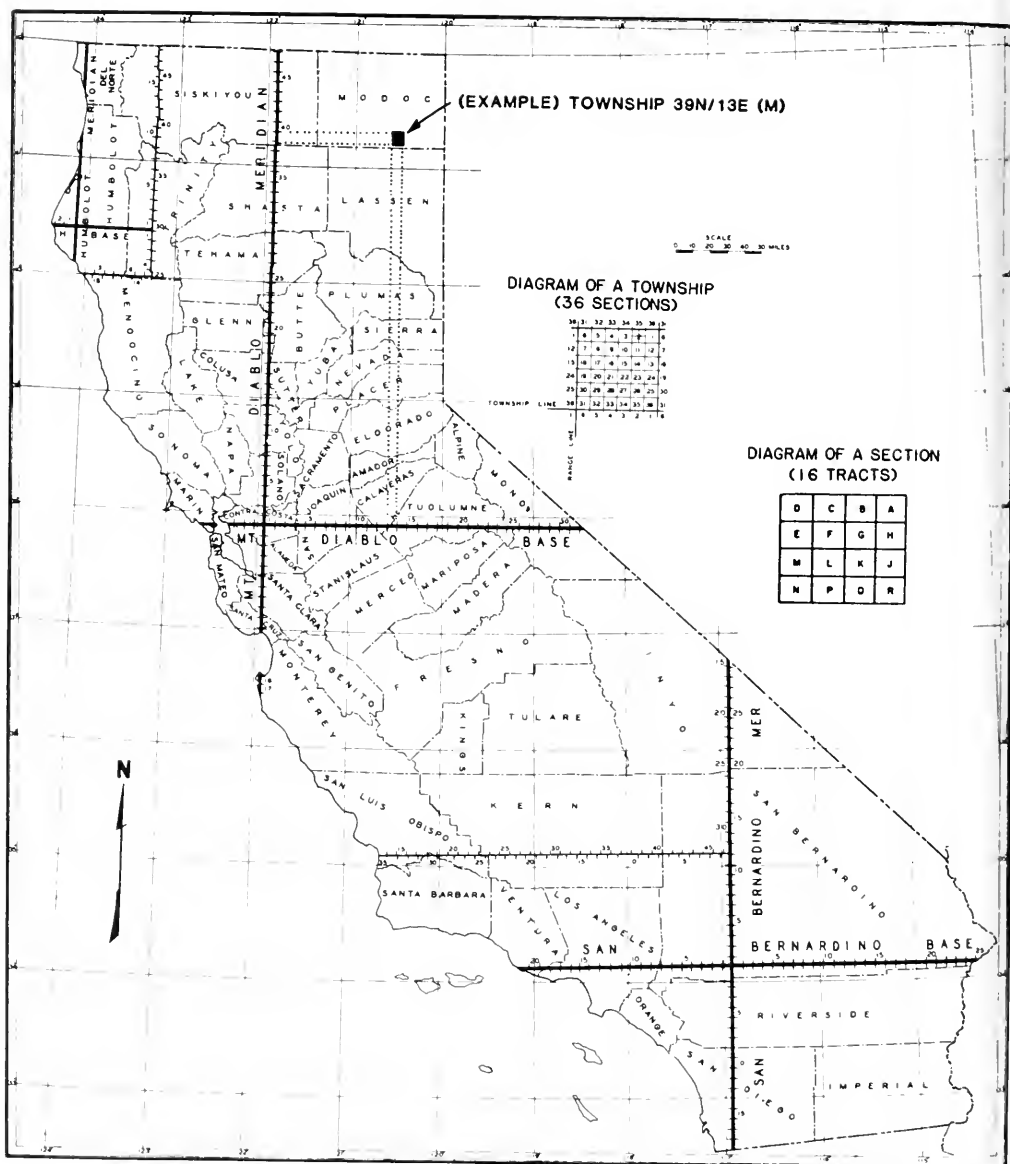


Figure 6. TOWNSHIP AND RANGE SYSTEM OF CALIFORNIA

APPENDIX D

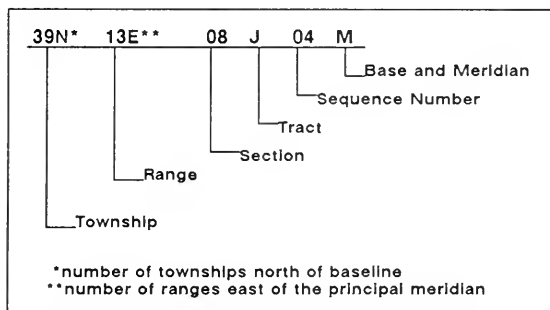
GROUND WATER MEASUREMENTS

Appendix "D" presents depth to water measurements (ground to water) and water surface elevations for selected wells in Northeastern California from October 1, 1984 to September 30, 1985.

The location of a well can be approximated by the well number. The numbering system for wells is based on a rectangular system called the United States System of Surveying the Public Lands, commonly referred to as the Public Lands Survey. This system ties all tracts of land to an initial point and identifies each as being in a particular township. A township is a square parcel of land six miles on each side. Its location is established as being so many six-mile units east or west of a north-south line (*principal meridian*) through the initial point and so many six-mile units north or south of an east-west line (*baseline*) through the point. The meridional (longitudinal) lines parallel to—and east or west of—the principal meridian are called *range lines*. Latitudinal lines parallel to—and north or south of—the baseline are known as *township lines*. Each township is described with respect to the initial point by its distance and direction from that point i.e., north or south and east or west in numbers of six-mile units.

Figure 6 presents the township and range system for California, and shows the three bases and meridians: i.e., the Humboldt (H), Mount Diablo (M) and San Bernardino (S). The figure also numbers the townships and ranges along the principal meridians and baselines, and shows the location of, for example, township 39N/13E M. The location of any township in the State can be found by extending the township and range lines as shown.

Every township is further divided into 36 equal parts called sections. A diagram of a typical township with the sections numbered from 1 to 36 is shown on Figure 6. The well numbering system is an extension of the public land survey system and involves dividing each section of land into sixteen 40-acre tracts with each tract given a letter (A through R) to identify it (Figure 6.) Sequence numbers in a tract are assigned in chronological order. A typical well number consists of 12 characters expressed as follows:



In the above example, this is the fourth well to be assigned a number in Tract J, Section 8 of the designated township.

Ground water measurement stations are listed in the tables by ascending areal code. The areal code is explained on page 2. Individual areal code numbers appear to the left of the areal names, and the

data listed thereunder are in that areal code boundary. The number of ground water stations precludes plotting each individual well on maps in this publication. Instead, Figure 7 shows the locations of the ground water basins in which measurements were taken.

To facilitate station location, the cross reference on page 208 relates the hydrologic areas to the ground water basins shown on Figure 7 and lists the respective areal code. The location and definition of any hydrologic area may be determined by entering Figure 2 (page 4) with the respective areal code. The cross reference also lists the page numbers for the tabulated data.

The dates shown in Table D are the dates when the depth measurements were made.

Some of the measurements in the "ground to water" column may be followed by a single digit in parenthesis, which indicates a questionable measurement. The meaning of these codes is as follows:

- | | |
|---------------------------|--|
| (0) Caved or deepened | (5) Air or pressure gage measurement |
| (1) Pumping | (6) Other |
| (2) Nearby pump operating | (7) Recharge operation at or near well |
| (3) Casing leaking or wet | (8) Oil in casing |
| (4) Pumped recently | (9) Acoustic sounder |

When the letters "NM" followed by a digit in parenthesis appears in the column, it means a measurement was attempted but could not be obtained. The reason for no measurement is described by the digit listed below:

- | | |
|-------------------------------|------------------------------|
| (0) Measurement Discontinued | (5) Unable to locate well |
| (1) Pumping | (6) Well has been destroyed |
| (2) Pump house locked | (7) Special |
| (3) Tape hung up | (8) Casing leaking or wet |
| (4) Cannot get tape in casing | (9) Temporarily inaccessible |

The words "FLOW" and "DRY" also appear in this column to indicate a flowing or dry well, respectively. When a minus sign precedes the value, it indicates that the static water level in a flowing well is that distance in feet above the ground surface.

Elevations are given in feet at USGS mean sea level datum. Ground surface elevations are usually obtained by interpolation between contours of USGS topographic maps.

The final column is the code number for the agency supplying the data. Contributing agencies are:

- 1453 - Yuba County
- 2684 - Solano Irrigation District
- 2925 - U.S. Soil Conservation Service
- 4202 - Sacramento Municipal Utility District
- 5001 - U. S. Bureau of Reclamation
- 5050 - California Department of Water Resources
- 5104 - Yolo County
- 5105 - Glenn County
- 5108 - Sacramento County
- 5110 - San Joaquin County
- 5111 - Lake County
- 5415 - Sutter, South, Water District
- 6244 - Sutter County
- 8201 - East Bay Municipal Utility District

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Appendix D Cross Reference

Ground Water Basin - Areal Code

Ground Water Basin No.	Name	Hydrologic Area*	Areal** Code	Data on page	Ground Water Basin No.	Name	Hydrologic Area*	Areal** Code	Data on page		
		SACRAMENTO	HB	A	210	5-22	San Joaquin Valley	SAN JOAQUIN DELTA	HB	B	236
		SACRAMENTO DELTA	HA	A-01	210	5-22	San Joaquin Valley	NORTH DIABLO RANGE	HU	B-01	237
5-21	Sacramento Valley	VALLEY PUTAH-CACHE	HU	A-02	210	5-22	San Joaquin Valley	NORTH VALLEY FLOOR	HU	B-03	238
5-21	Sacramento Valley	Elmira	HA	A-02.A	210	5-22	San Joaquin Valley	Lower Consumes - Dry	HA	B-03.A	238
5-21	Sacramento Valley	Lower Putah Creek	HA	A-02.B	213	5-22	San Joaquin Valley	Lower Deer Creek	NSA	B-03.A1	238
		Lower Cache Creek	HA	A-02.C	215			Herald	NSA	B-03.A2	238
		PUTAH CREEK	HU	A-03	216	5-22	San Joaquin Valley	Lower Mokelumne	HA	B-03.B	240
5-18	Coyote Valley	Upper Putah Creek	HA	A-03.B	216	5-22	San Joaquin Valley	Lower Calaveras	HA	B-03.C	248
5-19	Collayson Valley				5-22	San Joaquin Valley	Duck-Littlejohns	HA	B-03.D	249	
5-67	Clear Lake Pleistocene Volcanics										
		CACHE CREEK	HU	A-04	217						
5-30	Lower Lake Valley	Upper Cache Creek	HA	A-04.D	217			NORTH LANONTAN	HB	G	251
		Lower Lake	HSA	A-04.D1	217			LAKE TAHOE	HU	G-05	251
5-14	Scott Valley	Lucerne	HSA	A-04.D3	217	6-5.01	Tahoe Valley-South	South Tahoe	HA	G-05.A	251
5-15	Kelseyville Valley (Big Valley)	Lakeport	HSA	A-04.D4	217						
5-13	Upper Lake Valley	Upper Lake	HSA	A-04.D5	218	6-4	Honey Lake Valley	SUSANVILLE	HU	G-08	251
		VALLEY-AMERICAN	HU	A-05	218			Herlong	HA	G-08.A	251
5-21	Sacramento Valley	Morrison Creek	HA	A-05.A	218	6-100	Secret Valley	Susan River	HA	G-08.B	251
5-21	Sacramento Valley	Franklin	HSA	A-05.A1	218	6-103	Modoc Plateau	Snow Storm Mountain	HA	G-08.D	251
5-21	Sacramento Valley	Florin	HSA	A-05.A2	219			Pleistocene Volcanic Area			
5-21	Sacramento Valley	Coon American	HA	A-05.B	219	6-2	Madeline Plains	MADELINE PLAINS	HU	G-10	252
5-21	Sacramento Valley	Lower American	HSA	A-05.B1	219	6-1	Surprise Valley	SURPRISE VALLEY	HU	G-12	252
5-21	Sacramento Valley	Pleasant Grove	HSA	A-05.B2	220	6-1	Surprise Valley	Bare Creek	HA	G-12.A	252
						6-1	Surprise Valley	Cedarville	HA	G-12.B	252
						6-1	Surprise Valley	Fort Bidwell	HA	G-12.C	253
		COLUSA BASIN	HU	A-07	222						
5-21	Sacramento Valley	Sycamore-Sutter	HA	A-07.A	222						
5-21	Sacramento Valley	Glenn-Colusa	HA	A-07.B	222						
5-21	Sacramento Valley	Colusa Trough	HSA	A-07.B1	222						
5-21	Sacramento Valley	Orland	HSA	A-07.B2	225						
5-21	Sacramento Valley	Sutter Bypass	HA	A-07.C	226						
5-21	Sacramento Valley	Butte Basin	HA	A-07.D	226						
		MARYSVILLE	HU	A-08	227						
5-21	Sacramento Valley	Lower Bear River	HA	A-08.A	227						
5-21	Sacramento Valley	Olivehurst	HA	A-08.B	227						
5-21	Sacramento Valley	Lower Yuba River	HA	A-08.C	228						
5-21	Sacramento Valley	Lower Feather River	HA	A-08.D	229						
		FEATHER RIVER	HU	A-11	229						
5-11	Mohawk Valley	Middle Fork Feather	HA	A-11.C	229						
5-60	Humboldt Valley	Sloat	HSA	A-11.C2	229						
5-12	Sierra Valley	Sierra Valley	HSA	A-11.C2	229						
			HSA	A-11.C4	229						
5-7	Lake Almanor Valley	North Fork Feather	HA	A-11.D	231						
		Mount Markness	HSA	A-11.D4	231						
		TEHAMA	HU	A-13	231						
5-21	Sacramento Valley	Lower Stony Creek	HA	A-13.A	231						
5-21	Sacramento Valley	Red Bluff	HA	A-13.B	231						
		REDDING	HU	A-17	233						
5-6	Redding Basin	Enterprise Flat	HA	A-17.A	233						
5-6	Redding Basin	Lower Cottonwood	HA	A-17.B	233						
		PIT RIVER	HU	A-23	234						
		McArthur	HA	A-23.C	234						
5-5	Fall River Valley	Big Lake	HSA	A-23.C1	234						
5-40	Hot Springs Valley	Big Lake	HSA	A-23.C1	234						
		Big Valley	HA	A-23.D	234						
5-4	Big Valley	Bieber	HSA	A-23.D1	234						
5-4	Big Valley	Upper Ash Creek	HSA	A-23.D2	234						
		Upper Pit River	HA	A-23.E	234						
5-2	Alturas Basin	Canby	HSA	A-23.E1	234						
5-2.01	S. Fork Pit River and Alturas Area	Alturas	HSA	A-23.E2	234						
5-3	Jess Valley	Jess Valley	HSA	A-23.E3	234						
		LAKEVIEW	HU	A-24	235						
5-1	Goose Lake Valley	Davis Creek	HA	A-24.A	235						

*See page 2.

**See figure 2.

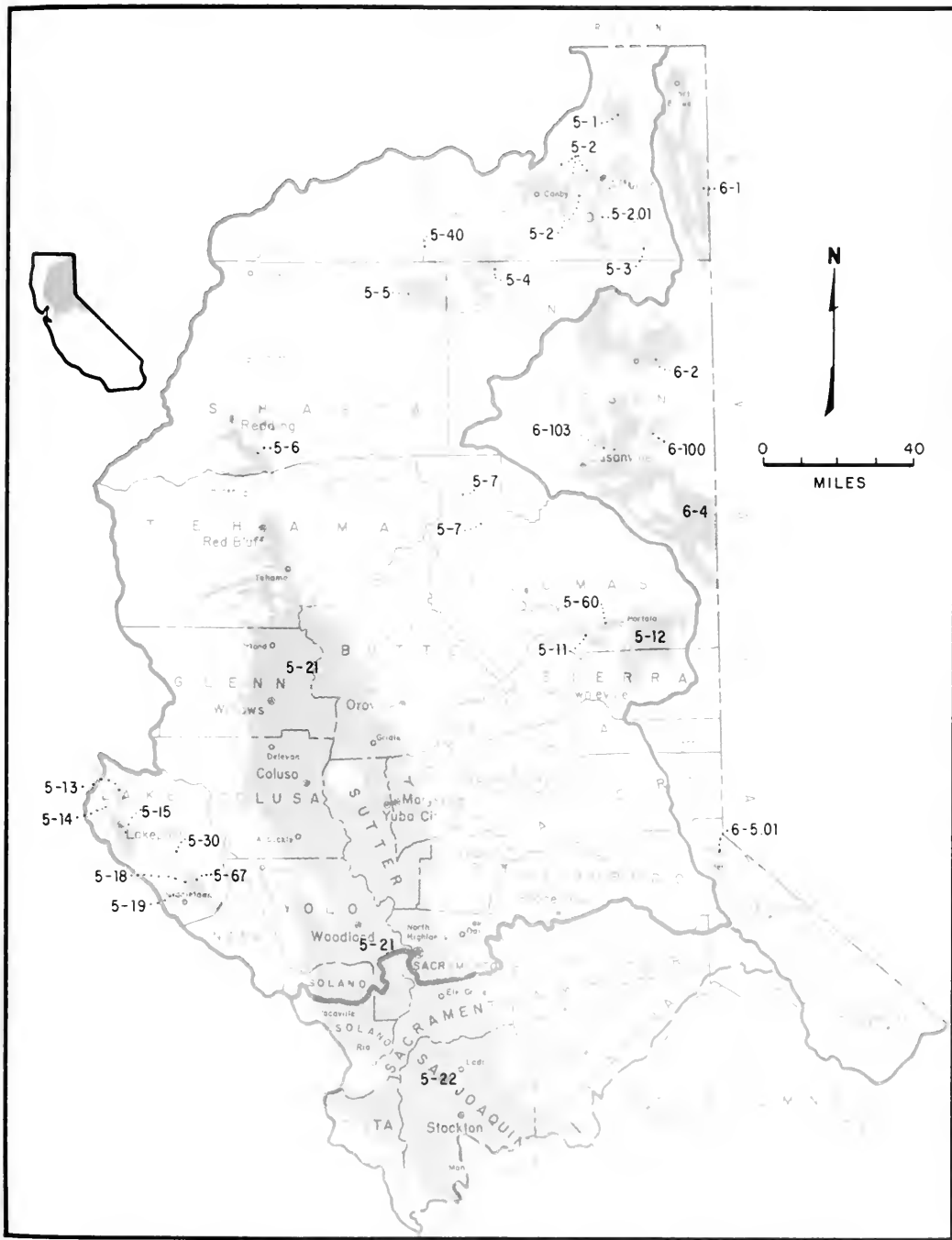


Figure 7 LOCATION OF GROUND WATER BASINS - MEASUREMENT

TABLE D
GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY	STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	*WATER SURFACE ELEV.	AGENCY
A A-01	SACRAMENTO HB SACRAMENTO DELTA HU					A A-02	SACRAMENTO HB VALLEY PUTAH-CACNE HU ELMIRA NA				
05N/02E-19M01 M	16.4	10/05/84 03/13/85	11.0 10.0	5.4 6.4	2684	04N/01E-02E01 M	60.0	10/03/84 11/26/84 12/18/84 01/30/85 02/26/85 03/11/85 04/24/85 05/23/85 06/27/85 07/30/85 08/26/85 09/16/85	8.7 8.6 8.6 8.7 8.6 8.6 8.7 8.9 9.0 9.3 9.6 9.8	31.3 31.4 31.4 31.3 31.4 31.4 31.3 31.1 31.0 30.7 30.4 30.2	5050
05N/02E-25K01 M	10	10/03/84 03/11/85	4.3 3.4	-4.3 -3.4	5050	04N/01E-02G01 M	70.0	10/03/84 03/11/85	41.8 37.3	28.2 32.7	5050
05N/02E-36M01 M	17	10/03/84 03/11/85	6.2 5.2	-5.5 -4.5	5050	04N/01E-12A01 M	78.0	10/03/84 03/11/85	5.0 4.6	73.0 77.4	5050
05N/05E-16C01 M	12.0	10/10/84 03/04/85	17.4 17.1	-5.4 -5.1	5001	04N/02E-09A01 M	39.0	10/05/84 03/15/85	16.8 17.0	22.2 22.0	2684
06N/02E-02M03 M	25.0	10/04/84 03/12/85	11.1 5.4	13.9 19.6	5050	04N/02E-22P01 M	70.0	10/03/84 03/11/85	38.7 39.7	31.3 31.3	5050
06N/02E-08B01 M		10/17/84 03/18/85	MM-1 MM-0		5001	05N/01E-03P01 M	35.0	10/03/84 03/11/85	10.9 9.7	24.1 25.3	5050
06N/02E-09C01 M	21.0	10/17/84 03/18/85	16.7 13.3	4.3 7.7	5001	05N/01E-11R01 M	24.5	10/29/84 03/11/85	16.1(8) 12.6(8)	8.4 11.7	5050
06N/02E-13N01 M	10.0	10/17/84 03/12/85	4.1 4.8	5.9 9.2	5001	05N/01E-26M02 M	19.0	10/05/84 03/22/85	3.4 1.1	15.6 17.9	2684
06N/03E-07M01 M	15.0	10/17/84 03/12/85	10.9 6.2	4.1 8.8	5001	05N/02E-03C01 M	12.0	10/03/84 11/26/84 12/18/84 01/30/85 02/26/85 03/11/85 04/24/85 05/23/85 06/27/85 07/30/85 08/26/85 09/16/85	7.6 5.7 3.6 4.0 3.2 3.4 4.3 6.4 6.3 5.3 4.8 4.6	4.4 4.3 8.4 8.0 8.8 8.6 7.7 5.6 5.7 6.7 7.2 7.4	5050
06N/03E-15B01 M	4.0	04/05/85	2.5	1.5	5050	06N/01E-02B01 M	46.0	10/04/84 03/12/85	34.6 18.9	11.4 27.2	5050
06N/03E-23P01 M	4.9	04/05/85	3.0	1.9	5050	06N/01E-05A01 M	62.0	10/04/84 03/12/85	7.0 9.8(4)	35.0 52.2	5050
06N/04E-24A01 M	10.0	03/15/85	27.4	-17.4	5050	06N/01E-06G01 M	77.0	10/15/84 03/14/85	10.0 9.3	67.0 67.7	2684
06N/05E-17F01 M	16.0	10/10/84 03/04/85	62.9 58.8	-46.9 -42.8	5001	06N/01E-10M01 M	52.0	10/04/84 03/12/85	7.5 9.9	44.5 42.1	5050
06N/05E-31A02 M	12.0	10/10/84 03/04/85	43.1 35.9	-31.1 -23.9	5001	06N/01E-13M01 M	40.0	10/04/84 11/26/84 12/18/84 01/30/85 02/26/85 03/12/85 04/24/85 05/23/85 06/27/85 07/30/85 08/26/85 09/16/85	12.1 11.9 11.9 10.8 10.4 10.4 9.9 10.9(2) 10.4 9.5 11.2 11.6	27.9 28.3 29.0 29.2 30.6 30.4 30.1 29.1 29.6 30.3 28.6 28.2	5050
07N/03E-19H01 M	21.0	10/17/84 03/12/85	17.2 11.3	3.8 9.7	5001	06N/01E-17M01 M	63.0	10/04/84 03/12/85	9.8 8.8	53.2 54.2	5050
07N/03E-30Q01 M	17.0	10/17/84 03/12/85	7.3 5.8	9.7 11.2	5001	06N/01E-18N01 M	72.7	10/05/84 03/14/85	5.2 6.1(8)	67.3 69.1	2684
07N/04E-11K01 M	17.3	10/10/84 03/21/85	8.7 10.9	8.6 6.4	5106	06N/01E-24L03 M	32.0	10/04/84 03/11/85	6.4 4.4	25.6 26.6	5050
08N/03E-35O01 M	14.0	04/05/85	7.1	6.9	5050	06N/01E-27G02 M	41.2	10/15/84 03/15/85	9.4 10.0	31.8 31.2	2684
08N/03E-21P02 M	16.0	04/05/85	12.7	3.3	5050	06N/03E-28N01 M	47.0	10/03/84 03/12/85	9.4 9.0	37.6 38.0	5050
08N/04E-06C01 M	10.0	10/26/84 03/28/85	6.1 5.6	3.9 4.4	5050	06N/03E-31A03 M	60.0	10/03/84 03/12/85	10.2 9.9	49.8 50.1	5050
08N/04E-18L01 M	10.0	04/05/85	6.6	3.4	5050	06N/01E-33L01 M	43.0	10/03/84 10/15/84 11/26/84 12/18/84 01/30/85 02/26/85 03/11/85	8.1 8.0 8.0 7.7 7.7 7.3 7.3	34.0 35.0 35.0 35.3 35.3 35.7 35.7	5050
09N/04E-32R01 M	12.0	10/26/84 11/29/84 12/20/84 01/27/85 02/27/85 03/26/85 04/26/85 05/29/85 06/27/85 07/29/85 08/26/85 09/27/85	25.3 23.2 22.8 22.3 24.1 22.6 MM-1 29.1 35.1 35.9 34.7 32.9	-13.3 -11.2 -10.8 -10.3 -12.1 -10.6 -17.1 -23.1 -23.9 -22.7 -20.9	5050						
09N/04E-34K01 M	18.4	10/26/84 04/03/85	13.7 12.1	4.7 6.3	5050						

TABLE D (CONTINUED)

GRUNDO WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY	STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY
A A-02 A-02.4	SACRAMENTO HB VALLEY PUTAH-CACHE HU ELMIRA HA					A A-02 A-02.4	SACRAMENTO HB VALLEY PUTAH-CACHE HJ ELMIRA HA				
06N/01E-33101 M	43.0	03/14/85 04/24/85 05/23/85 06/27/85 07/30/85 08/26/85 09/16/85	7.2 7.2 6.6 6.3 NM-1 7.1 7.4	35.8 35.8 36.4 36.7 NM-1 35.9 35.6	2684 5050	07N/01E-33R01 M	60.0	08/26/85 09/16/85	5.3 6.3	34.5 33.7	5050
06N/02E-19J01 M	23.0	10/04/84 03/12/85	12.0 6.9	11.0 16.1	5050	07N/02E-02F02 M	33.0	10/04/84 03/12/85	45.4 (8) 29.0 (6)	-12.4 4.0	5050
06N/02E-20H02 M	20.0	10/04/84 03/12/85	13.2 (8) 8.2 (6)	6.8 11.8	5050	07N/02E-04M03 M	52.5	10/17/84 03/15/85	43.0 32.4	9.3 20.1	5001
06N/02E-26G01 M	8.0	10/05/84 03/22/85	6.8 6.4	1.2 1.6	2684	07N/02E-06H02 M	55.0	10/17/84 03/16/85	22.7 15.6	32.3 39.4	5001
07N/01E-03G01 M	82.0	10/17/84 03/13/85	NM-9 23.3	58.7	5001	07N/02E-09F01 M	51.0	10/17/84 03/18/85	30.6 28.9	20.4 22.1	5001
07N/01E-04P01 M	89.0	10/17/84 03/18/85	13.5 17.7	75.5 71.3	5001	07N/02E-11G01 M	30.0	10/17/84 03/12/85	33.6 25.6	-3.6 4.4	5001
07N/01E-05F01 M	91.7	10/17/84 03/15/85	NM-9 16.9	50.1	5001	07N/02E-12C01 M	27.0	10/17/84 03/12/85	32.2 27.7	-5.2 -7.7	5001
07N/01E-08F03 M		10/17/84 03/16/85	NM-9 NM-9	74.8	5001	07N/02E-14F02 M	31.0	10/17/84 03/12/85	26.3 22.1	4.7 8.9	5001
07N/01E-08H02 M	85.0	10/04/84 11/26/84 12/18/84 01/30/85 02/26/85 03/12/85 04/24/85 05/23/85 06/27/85 07/30/85 08/26/85 09/16/85	9.3 (4) 3.0 2.6 2.8 2.1 2.8 3.8 4.2 6.5 5.9 5.1 10.1	75.5 82.0 82.4 82.2 82.9 81.2 80.8 78.5 79.1 79.9 74.9	5050	07N/02E-14H01 M	34.0	10/17/84 03/12/85	NM-9 24.1	9.9	5001
07N/01E-10E01 M	78.3	10/17/84 03/18/85	11.4 16.2	67.1 62.3	5001	07N/02E-15E01 M	42.0	10/17/84 03/12/85	32.3 26.8	9.7 15.2	5001
07N/01E-11H01 M	75.0	10/17/84 03/18/85	20.0 21.8 (8)	55.0 53.2	5001	07N/02E-19E01 M	50.3	10/17/84 03/18/85	32.2 25.5	18.1 24.8	5001
07N/01E-12N02 M	64.0	10/04/84 11/27/84 11/26/84 12/18/84 01/30/85 02/26/85 03/12/85 04/24/85 05/23/85 06/27/85 07/30/85 08/26/85 09/16/85	18.5 19.4 19.0 18.3 19.1 16.7 18.6 19.0 18.5 17.2 16.7 19.1 20.3 21.0	45.3 44.6 43.0 43.0 44.9 45.3 45.4 45.0 45.5 46.8 47.3 43.7 43.0	5030 5001 5050	07N/02E-24H01 M	23.0	10/04/84 11/26/84 12/18/84 01/30/85 02/26/85 03/12/85 04/24/85 05/23/85 06/27/85 07/30/85 08/26/85 09/16/85	11.9 12.2 11.9 12.1 11.2 11.8 11.4 11.5 9.9 10.1 12.9 12.1 11.6	11.1 10.8 11.9 10.9 11.8 11.4 11.5 13.1 12.9 12.9 12.1 11.6	5050
07N/01E-16R02 M	75.0	10/17/84 03/18/85	20.6 17.7	54.4 57.3	5001	07N/02E-26G01 M	27.5	10/17/84 03/12/85	16.7 15.8	10.8 11.7	5001
07N/01E-16O02 M	80.0	10/17/84 03/18/85	8.4 7.2	71.6 72.8	5001	07N/02E-30N03 M	43.0	10/17/84 03/18/85	34.7 23.3	8.3 19.7	5001
07N/01E-21H03 M	70.5	10/17/84 03/18/85	27.1 16.5	43.4 54.0	5001	07N/02E-33G02 M	39.0	10/17/84 03/12/85	34.2 25.9	-1.2 7.1	5001
07N/01E-21H03 M	70.5	10/17/84 03/18/85	27.1 16.5	43.4 54.0	5001	07N/02E-34C02 M	35.0	10/17/84 03/12/85	34.1 26.0	.9 9.0	5001
07N/01E-26G02 M	55.0	10/17/84 03/18/85	NM-9 16.7	38.3	5001	07N/03E-04G01 M	19.0	04/08/85	12.1	6.9	5050
07N/01E-27M04 M	65.7	10/17/84 03/18/85	36.2 19.0	29.5 46.7	5001	07N/03E-08J01 M	17.0	04/08/85	11.7	5.3	5050
07N/01E-29P01 M	74.0	10/17/84 03/15/85	11.2 10.6	62.8 63.4	5001	07N/03E-08H01 M	19.0	10/17/84 03/12/85	NM-9 16.8	2.2	5001
07N/01E-30H01 M	87.0	10/17/84 03/15/85	6.2 5.2	80.8 81.8	5001	07N/03E-17F01 M	15.0	04/08/85	7.5	8.5	5050
07N/01E-33A01 M	89.0	10/11/84 10/17/84 11/13/84 12/02/84 01/02/85 02/12/85 03/01/85 03/18/85 04/02/85 05/03/85 06/05/85 07/10/85 08/11/85 09/01/85	NM-1 34.5 44.5 44.7 43.4 (3) 42.2 (3) 41.8 (3) 16.9 19.6 38.0 39.3 NM-1 NM-1 51.6	30.5 20.5 20.3 21.6 22.8 23.2 48.1 48.4 27.0 25.7	5001	08N/01E-19K01 M	104.0	10/18/84 03/15/85	33.6 31.6	70.4 72.4	5001
07N/01E-33R01 M	60.0	10/04/84 11/24/84 12/18/84 01/30/85 02/26/85 03/12/85 04/24/85 05/23/85 06/27/85 07/30/85	8.4 7.7 7.5 8.6 7.2 7.3 7.4 3.6 4.4 4.3	51.6 52.3 52.5 51.4 52.9 52.7 52.6 56.4 55.6 55.7	5050	08N/01E-20G01 M	98.0	10/18/84 03/15/85	31.6 29.3	66.4 68.7	5001
						08N/01E-23C01 M	84.2	10/17/84 03/13/85	NM-9 40.9	43.3	5001
						08N/01E-23G01 M	73.0	10/17/84 03/13/85	30.6 27.6	42.4 45.4	5001
						08N/01E-24G01 M	68.0	10/17/84 03/13/85	48.7 32.2	19.3 35.8	5001
						08N/01E-27G02 M	80.0	10/18/84 03/15/85	21.1 20.8	58.9 59.2	5001
						08N/01E-28G01 M	92.0	10/18/84 03/15/85	25.3 24.7	66.7 67.3	5001
						08N/01E-30G02 M	110.0	10/19/84 03/14/85	34.0 32.3	76.0 77.7	5001
						08N/01E-32E01 M	100.0	10/18/84 03/15/85	25.8 25.3	74.2 74.7	5001
						08N/01E-33H01 M	82.0	10/18/84 03/13/85	13.7 (3) 15.4	68.3 66.4	5001
						08N/01E-33G02 M	86.0	10/04/84 11/24/84 12/18/84 01/30/85 02/26/85 03/12/85 04/24/85 05/23/85 06/27/85 07/30/85	13.7 18.3 17.2 18.3 18.8 19.0 19.5 12.1 11.1 NM-1	72.3 69.7 68.8 67.7 67.2 67.0 67.5 73.9 74.9	5050

TABLE D (CONTINUED)

GROUND WATER LEVELS AT WELLS											
STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY	STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY
A A-02 A-02.A	SACRAMENTO HB VALLEY PUTAH-CACHE HU ELMIRA HA					A A-02 A-02.A	SACRAMENTO HB VALLEY PUTAH-CACHE HU ELMIRA HA				
08N/01E-33Q02 H	86.0	08/26/89 09/16/85	NM-1 15.7	70.3	5050	06N/01W-12001 H	77.0	10/03/84 03/12/85	9.0 7.4	68.0 69.6	5050
08N/01E-33Q03 H	85.7	10/18/84 03/15/85	12.0 16.7	73.7 69.0	5001	08N/01W-13R01 H	74.3	10/03/84 03/12/85	5.9 5.3	69.0 71.2	5050
08N/01E-33K01 H	73.0	10/17/84 03/13/85	44.2 27.1	28.8 45.9	5001	08N/01W-15P01 H	123.0	10/04/84 03/11/85	112.9 106.4	10.1 16.6	5050
08N/02E-19F02 H	70.0	10/17/84 03/13/85	41.1 33.7	28.9 34.3	5001	06N/01W-20001 H	201.0	10/15/84 03/14/85	16.6 12.7	184.4 184.3	2684
08N/02E-27C02 H	51.5	10/17/84 03/12/85	39.4 30.1	11.1 21.4	5061	06N/01W-23801 H	93.0	10/05/84 03/14/85	15.2 14.2	77.8 78.8	2684
08N/02E-27Q02 H	45.0	10/17/84 03/12/85	40.9 29.3	4.1 15.3	5001	08N/01W-23C01 H	100.0	10/05/84 03/15/85	22.3 22.6	77.7 77.4	2684
08N/02E-30H02 H	62.0	10/18/84 10/27/84 11/13/84 12/02/84 01/02/85 02/06/85 03/01/85 03/15/85 04/02/85 05/05/85 06/05/85 07/10/85 08/11/85 09/01/85	36.5 37.2(8) 37.4 37.8(8) 37.1(8) 32.1(8) 31.2(8) 31.0 31.6(8) NM-1 NM-1 NM-1 NM-1 NM-1 46.5	25.3 24.8 24.6 24.2 24.9 29.9 30.8 31.0 30.4 13.9	5001	06N/01W-24H01 H	88.0	10/03/84 03/12/85	11.7 11.7	76.3 76.3	5050
						06N/01W-24H02 H	90.0	10/03/84 03/12/85	130.7 133.5	-49.7 -63.5	5050
						06N/01W-26C04 H	80.0	10/03/84 03/12/85	15.7 16.7	64.3 63.3	5050
						07N/01W-01E03 H	103.0	10/16/84 03/15/85	18.3 18.4(1)	84.7 84.6	5001
						07N/01W-04001 H	145.0	10/16/84 03/14/85	46.3 43.5	98.7 101.3	5001
08N/02E-31D01 H	65.0	10/17/84 03/13/85	32.7 23.9	32.3 39.1	5001	07N/01W-05R01 H	170.0	10/16/84 03/14/85	NM-9 60.1	109.9	5001
08N/02E-32N01 H	97.0	10/17/84 03/18/85	35.5(8) 29.0(8)	23.5 28.0	5001	07N/01W-06E01 H	157.0	10/16/84 03/14/85	NM-9 67.7(3)	89.3	5001
08N/02E-32R01 H	55.5	10/17/84 03/18/85	48.2 23.7	7.3 29.8	5001	07N/01W-13H01 H	105.0	10/16/84 03/15/85	10.9 10.2	94.1 94.8	5001
08N/02E-33F03 H	41.0	10/11/84 10/17/84 11/13/84 12/02/84 01/02/85 02/12/85 03/01/85 03/12/85 04/02/85 05/05/85 06/05/85 07/10/85 08/11/85 09/01/85	47.1 41.5 41.2 41.1 38.7(3) 35.2 36.1 31.2 35.9 NM-1 NM-1 NM-1 NM-1 NM-1	-6.1 -5 -2 -1 2.3 5.8 4.9 9.8 5.1 -9 -9 -9 -12.1 -11.1	5001	07N/01W-16G01 H	230.0	10/16/84 03/15/85	NM-9 112.9	117.1	5001
						07N/01W-17Q01 H	225.0	10/16/84 03/15/85	NM-9 13.5	141.5	5001
						07N/01W-27R01 H	125.0	10/16/84 03/15/85	61.3 59.3	63.7 63.7	5001
						07N/01W-27R02 H	116.0	10/04/84 03/12/85	42.8 50.7	63.2 63.3	5050
						07N/01W-33J02 H	130.0	10/04/84 03/12/85	90.0 78.9	40.0 51.1	5050
08N/03E-28H01 H	20.0	04/08/85	11.8	8.2	5050	07N/01W-34F01 H	140.0	10/04/84 03/12/85	111.0 97.1	29.0 42.9	5050
08N/03E-31N01 H	32.0	10/17/84 10/27/84 11/13/84 12/02/84 01/02/85 02/12/85 03/01/85 03/12/85 04/01/85 04/08/85 03/03/85 06/05/85 07/10/85 08/11/85 09/01/85	32.8 32.0 31.1 30.7 29.2 27.4 27.4 27.0 26.6 26.3 31.2 32.9 30.6 44.1 43.1	-8 0 0 1.3 2.8 4.6 5.0 5.4 9.3 -9 -9 -7.6 -12.1 -11.1	5001	07N/01W-35R01 H	91.0	10/16/84 03/15/85	10.0 9.3	81.0 81.3	5001
						08N/01W-22P01 H	129.0	10/16/84 03/14/85	44.6 39.6	84.4 89.4	5001
						08N/01W-24001 H	118.0	10/18/84 03/15/85	33.2 30.9	64.8 67.1	5001
						08N/01W-25402 H	114.0	10/16/84 03/15/85	36.0(3) 34.0	78.0 80.0	5001
						08N/01W-26402 H	121.6	10/18/84 03/14/85	40.2 37.8	81.4 83.8	5001
08N/03E-32G01 H	21.0	04/08/85	17.1	3.9	5050	08N/01W-26005 H	126.2	10/16/84 03/14/85	41.4 37.8	84.8 88.4	5001
08N/03E-32L01 H	25.0	04/08/85	18.8	6.2	5050	08N/01W-26402 H	116.0	10/16/84 03/14/85	NM-9 28.9	87.1	5001
05N/01W-02R01 H	97.0	10/03/84 03/12/85	16.6 16.6	80.4	5050	08N/01W-27L01 H	135.0	10/16/84 03/14/85	36.1 NM-2	96.9	5001
05N/01W-12H01 H	60.0	10/03/84 03/12/85	7.4 8.1	52.6 51.9	5050	08N/01W-28802 H	139.0	10/16/84 03/14/85	47.3 41.7	91.7 97.3	5001
06N/01W-01R01 H	82.0	10/04/84 10/03/84 11/26/84 12/18/84 11/30/84 02/26/85 03/12/85 03/14/85 04/24/85 05/23/85 06/27/85 07/30/85 08/26/85 09/16/85	20.2 20.4 18.7 17.7 17.7 16.7 16.6 16.6 16.8 17.2 16.7 16.7 16.7 16.6 19.6	61.8 61.6 63.3 64.3 64.3 65.3 65.4 65.4 64.8 63.3 63.3 63.3 62.4 62.2	5050 2684 5050	08N/01W-28J01 H	135.0	10/04/84 10/16/84 11/26/84 12/18/84 11/30/84 02/26/85 03/12/85 03/14/85 04/24/85 05/23/85 06/27/85 07/30/85 08/26/85 09/16/85	42.4 40.6(3) 41.0 40.4 40.5 40.5 40.5 40.5 40.5 41.2 42.8(2) 44.1 47.7(2) 47.7		

TABLE D (CONTINUED)
GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY	STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY
A-02 A-02.4	SACRAMENTO HB VALLEY PUTAH-CACHE HU ELMIRA WA					A-02 A-02.8	SACRAMENTO HB VALLEY PUTAH-CACHE HU LOWER PUTAH CREEK WA				
08N/01V-32M03 M	101.0	03/14/85	72.5	106.5	5001	08N/02E-16M01 M	58.0	06/05/85 07/10/85 08/11/85 09/01/85	49.2 68.6 63.3 57.7	8.8 -10.6 -5.3 .3	5001
08N/01V-33A01 M	134.7	10/16/84 03/14/85	38.8(3) 35.6	95.9 99.1	5001	08N/02E-17M01 M	59.0	10/17/84 03/11/85	35.1 29.8	23.9 20.2	5001
08N/01V-33B02 M	136.0	10/16/84 03/14/85	38.5 36.3	99.5 99.7	5001	08N/02E-18M02 M	68.0	10/17/84 03/11/85	38.9 14.7	27.1 31.3	5001
08N/01V-34A01 M	120.0	10/16/84 03/14/85	37.1 34.9	82.9 85.1	5001	08N/02E-19M01 M	67.0	10/11/84 10/17/84 11/13/84 12/02/84 01/32/85 02/12/85 03/01/85 03/11/85 04/01/85 05/03/85 06/05/85 07/10/85 08/11/85 09/01/85	39.2 39.1 38.9 36.5 36.1 36.1 34.9 34.7 34.2 35.2 38.8 42.2 43.9 43.9	27.8 27.9 28.1 28.5 27.9 30.9 32.1 32.3 32.8 31.8 28.2 24.8 23.5 23.1	5001
A-02.8	LOWER PUTAH CREEK WA										
08N/01E-01J02 M	65.0	10/24/84 03/20/85	16.3 16.4	46.7 46.0	5104	08N/02E-20M01 M	59.5	10/17/84 03/11/85	43.3 35.3	16.2 24.0	5001
08N/01E-04A02 M	95.0	10/24/84 03/13/85	19.3 16.5(4)	75.7 76.5	5104	08N/02E-21L01 M	58.0	10/17/84 03/11/85	42.0 31.2	16.0 28.8	5001
08N/01E-07M01 M	105.0	10/24/84 03/11/85	19.7 23.7	85.3 81.3	5104	08N/02E-24M01 M	37.5	10/17/84 10/27/84 11/11/84 12/02/84 01/32/85 02/08/85 03/01/85 03/12/85 04/01/85 05/03/85 06/05/85 07/10/85 08/11/85 09/01/85	32.9 30.8 30.8 30.5(8) 30.7(8) 29.1 25.2 23.8 22.6 20.1 19.7 18.7 17.8 17.0	4.8 0.7 8.7 7.2 6.8 6.4 12.3 13.7 14.9 7.9 -17.2 -13.0	5001
08N/01E-09E01 M	97.0	10/24/84 03/13/85	17.9 19.4	79.1 77.6	5104	08N/03E-04R01 M	16.0	10/29/84 11/29/84 12/20/84 01/29/85 02/27/85 03/26/85 04/28/85 05/29/85 06/28/85 07/29/85 08/26/85 09/25/85	14.5 12.0 10.5 9.2 7.9 7.7 11.8 16.7 16.1 20.5 19.3 17.8	1.5 4.0 5.5 6.8 6.1 8.3 4.4 -7.7 -2.1 -4.5 -3.3 -1.8	5050
08N/01E-09R01 M	90.5	10/29/84 11/29/84 12/20/84 01/29/85 02/27/85 03/26/85 04/28/85 05/29/85 06/28/85 07/29/85 08/26/85 09/25/85	28.3 27.5 27.2 26.4 27.5 27.7 26.3 26.0 27.9 43.2 39.4 39.4	62.2 63.0 63.3 63.4 63.0 62.8 34.2 32.3 42.6 47.3 31.1 37.1	5050	08N/03E-07M01 M	32.4	10/29/84 11/29/84 12/20/84 01/29/85 02/27/85 03/26/85 04/28/85 05/29/85 06/28/85 07/29/85 08/26/85 09/25/85	27.9 23.8 21.8 20.1 19.6 18.7 16.7 15.9 14.6 13.7 12.8 11.8	4.5 23.6 10.6 12.3 12.8 13.7 2.5 -21.5 -26.6 -27.1 -17.2 -5.2	5050
08N/01E-10M01 M	91.3	10/25/84 03/21/85	17.1 14.5	54.2 36.8	5104	08N/03E-19003 M	37.0	04/05/85	24.4	12.8	5050
08N/01E-11F01 M	78.0	10/24/84 03/21/85	22.0 23.0	56.0 55.0	5104	09N/01E-01L01 M	74.0	10/25/84 03/14/85	40.0 34.4	34.0 39.6	5104
08N/01E-12001 M	70.0	10/24/84 03/21/85	19.5 30.0	50.5 40.0	5104	09N/01E-02M01 M	87.0	10/25/84 03/14/85	44.4 44.9	42.6 42.1	5104
08N/01E-12R03 M	64.0	10/17/84 03/14/85	24.4 23.0	39.6 41.0	5001	09N/01E-03A02 M	91.0	10/25/84 03/14/85	62.0 51.8	29.0 39.2	5104
08N/01E-14P01 M	74.0	10/25/84 03/21/85	37.1 28.6	41.9 30.4	5104	09N/01E-03C03 M	96.0	10/25/84 03/14/85	62.7 57.6	33.3 38.4	5104
08N/01E-15B01 M	85.0	10/25/84 10/29/84 11/29/84 12/20/84 01/29/85 02/27/85 03/21/85 03/28/85 04/28/85 05/29/85 06/28/85 07/29/85 08/26/85 09/25/85	19.8 19.8 20.8 21.0 21.6 21.9 22.4 22.3 22.6 19.7 19.6 20.2 20.8 22.1	65.4 65.2 64.4 64.0 63.4 63.1 62.5 62.7 62.4 55.3 55.2 64.8 64.2 62.9	5104 5050	09N/01E-12001 M	71.0	10/25/84 03/14/85	23.8 26.0	47.4 45.0	5104
08N/01E-15P02 M	84.0	03/15/85	32.1	51.9	5001	09N/01E-16A01 M	92.0	10/25/84 03/14/85	12.8 11.8	79.2 80.4	5104
08N/01E-16B01 M	93.5	10/18/84 03/14/85	34.0 27.8	59.5 65.7	5001	09N/01E-20E01 M	112.0	10/24/84 03/14/85	12.0 7.4(6)	100.0 104.8	5104
08N/01E-17D01 M	102.0	10/24/84 03/13/85	26.2(8) 24.0	75.8 78.0	5104	09N/01E-22R01 M	85.0	10/29/84	13.4	72.5	5050
08N/01E-17F01 M	101.0	10/18/84 03/14/85	NM-7 31.6	69.4	5001						
08N/02E-01K01 M	34.0	10/18/84 03/13/85	33.3 17.1	.7 16.9	5001						
08N/02E-03J01 M	40.0	10/18/84 03/11/85	42.3 23.4(8)	-2.3 18.6	5001						
08N/02E-04E01 M	52.0	10/18/84 03/13/85	24.6 16.7	27.4 33.3	5001						
08N/02E-09A01 M	43.0	10/24/84 03/20/85	26.5 17.8	16.5 25.2	5104						
08N/02E-14M03 M	45.0	04/08/85	28.2	16.8	5050						
08N/02E-16M01 M	58.0	10/11/84 10/17/84 11/13/84 12/02/84 01/02/85 02/12/85 03/01/85 03/12/85 04/01/85 05/03/85	44.8 43.8 45.4 43.6 35.9 35.2 37.6 35.0 34.3 47.1	13.2 14.5 14.6 14.4 22.1 22.8 20.4 23.0 23.7 10.9	5001						

TABLE D (CONTINUED)

GROUND WATER LEVELS AT WELLS						GROUND WATER LEVELS AT WELLS					
STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY	STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY
A 4-02 4-02.8	SACRAMENTO HB VALLEY PUTAH-CACHE HU LOWER PUTAH CREEK HA					A 4-02 4-02.8	SACRAMENTO HB VALLEY PUTAH-CACHE HJ LOWER PUTAH CREEK HA				
09N/01E-22801 M	86.0	11/20/84 12/20/84 01/20/85 02/27/85 03/26/85 04/26/85 05/20/85 06/26/85 07/20/85 08/26/85 09/25/85	12.5 12.7 13.4 13.9 14.0 13.9 13.0 12.3 12.5 12.4 12.2	73.5 73.3 72.6 72.1 72.0 72.1 71.0 73.7 73.5 73.6 73.8	5050	10N/01E-28001 M		10/30/84	NM-4		5104
						10N/01E-31E01 M	128.0	10/22/84 03/04/85	24.4 23.5	103.6 104.5	5104
						10N/01E-33L02 M	132.0	10/22/84 03/04/85	74.5 69.2	57.5 62.8	5104
						10N/01E-33M01 M	132.0	10/23/84 03/04/85	19.9 21.7	112.1 110.3	5104
09N/01E-24001 M	67.0	10/24/84 03/20/85	10.6 13.7	56.4 53.3	5104	10N/01E-33P01 M	130.0	10/25/84 03/14/85	64.9 NM-9	65.1	5104
09N/01E-26N01 M	77.0	10/25/84 03/21/85	6.8 5.7	70.2 71.3	5104	10N/01E-34A03 M	100.0	10/25/84 03/14/85	68.3 63.5	31.7 36.5	5104
09N/01E-27C01 M	87.0	10/25/84 03/21/85	14.2 NM-8	72.8	5104	10N/01E-36D02 M	65.0	10/25/84 03/14/85	73.8 68.1	31.2 36.9	5104
09N/01E-28M01 M	102.0	10/24/84 03/05/85	8.9 8.7	95.1 93.3	5104	10N/02E-08001 M	63.0	10/28/84 03/20/85	39.4 28.5	29.6 34.5	5104
09N/01E-31001 M	116.0	10/24/84 03/05/85	7.9 6.8	108.1 109.2	5104	10N/02E-10R01 M	47.0	10/29/84 03/20/85	26.8 19.1	20.2 27.9	5104
09N/01E-33H02 M	75.0	10/25/84 03/21/85	17.5 19.1	57.5 55.9	5104	10N/02E-12M01 M	35.0	10/29/84 03/20/85	23.0 15.1	12.0 19.9	5104
09N/01E-36A01 M	68.0	10/17/84 03/13/85	20.5 19.8	47.5 48.2	5001	10N/02E-14E01 M	35.0	10/29/84 03/20/85	9.0 7.5	27.0 28.5	5104
09N/02E-07A01 M	72.0	10/25/84 03/14/85	42.0 36.6	30.0 35.4	5104	10N/02E-13M01 M	45.0	10/29/84 03/20/85	26.9 16.2(18)	18.1 28.8	5104
09N/02E-07K01 M		10/25/84 03/14/85	NM-9 40.6		5104	10N/02E-18P01 M	74.0	10/29/84 03/20/85	43.6 44.7	30.4 29.3	5104
09N/02E-07L01 M	66.0	10/25/84 03/14/85	47.5 34.0	18.5 32.0	5104	10N/02E-19M03 M	73.0	10/29/84 03/20/85	42.8 36.5	30.2 36.5	5104
09N/02E-09B01 M	53.0	10/25/84 03/14/85	29.3(8) 20.5(8)	23.7 32.3	5104	10N/02E-24R01 M		10/25/84 03/20/85	NM-4 NM-4		5104
09N/02E-10E01 M	46.0	10/25/84 03/14/85	23.3 16.9	22.7 29.1	5104	10N/02E-26M01 M	32.0	10/29/84 03/20/85	24.9 7.8	7.1 24.2	5104
09N/02E-13M01 M	32.0	10/25/84 03/14/85	11.5 4.8	20.5 27.2	5104	10N/02E-28A02 M	45.0	10/29/84 03/20/85	24.5 17.6	20.5 26.4	5104
09N/02E-16N01 M	52.0	10/29/84 11/29/84 12/20/84 01/29/85 02/27/85 03/26/85 04/26/85 05/20/85 06/26/85 07/20/85 08/26/85 09/25/85	20.7 18.3 17.4 16.6 16.5 19.1 29.4 37.7 43.0 40.8 34.3 31.0	31.5 33.7 34.6 35.4 35.3 32.9 22.6 14.3 9.0 11.2 17.7 21.0	5050	10N/02E-29A01 M	55.0	10/22/84 04/24/85	18.1 16.6	36.9 38.4	5050
						10N/02E-31M01 M	77.0	10/25/84 03/14/85	49.2 43.0	27.8 34.0	5104
						10N/02E-33R01 M	52.0	10/24/84 03/14/85	21.6 12.6(16)	30.4 39.4	5104
						10N/02E-34M01 M	54.0	10/25/84 03/14/85	25.2 24.0	25.8 30.0	5104
09N/02E-20M01 M	61.0	10/24/84 03/20/85	18.4 24.5	42.6 36.3	5104	10N/03E-14C01 M	25.0	04/08/85	13.7	11.3	5050
09N/02E-21L01 M	51.0	10/24/84 03/20/85	18.6 18.8	32.4 32.2	5104	10N/03E-32E01 M	21.0	04/08/85	5.7	15.3	5050
09N/02E-22H02 M	39.0	10/24/84 03/20/85	12.5 NM-9	26.5	5104	08N/01W-02K01 M	130.0	10/24/84 03/13/85	18.1(18) NM-3	111.9	5104
09N/02E-22Q03 M	50.0	10/25/84 03/21/85	20.5(8) 15.7(8)	29.5 34.3	5104	08N/01W-03M03 M	163.0	10/16/84 03/15/85	36.4 37.7	126.6 123.3	5001
09N/02E-31001 M	65.0	10/24/84 03/21/85	23.4 22.5	39.6 42.5	5104	08N/01W-09C01 M	163.0	10/24/84 03/13/85	38.4 38.9	124.6 124.1	5104
09N/02E-32M01 M	56.0	10/24/84 03/21/85	12.0 17.2	44.0 38.4	5104	08N/01W-10A02 F	135.0	10/16/84 03/15/85	29.1 29.4	106.9 106.6	5001
09N/02E-35E01 M	34.0	10/24/84 03/20/85	16.7 9.8	17.1 24.2	5104	08N/01W-10E01 M	139.0	10/16/84 03/15/85	33.1 36.7	105.9 108.3	5001
09N/03E-07D01 M	25.0	10/24/84 03/14/85	11.2 9.0	13.8 12.0	5104	08N/01W-11F02 M	125.0	10/24/84 03/13/85	26.4(18) NM-8	98.6	5104
09N/03E-31A02 M	21.0	10/24/84 03/20/85	21.0 13.0	.0 8.0	5104	08N/01W-12M01 M	122.0	10/24/84 03/13/85	22.6 23.9	99.4 98.1	5104
10N/01E-13L01 M	82.0	10/29/84 03/20/85	56.2 43.0	25.8 39.0	5104	08N/01W-13G03 M	113.0	10/24/84 03/13/85	10.6 10.5	82.4 82.5	5104
10N/01E-23G01 M	92.0	10/25/84 03/20/85	60.3 NM-9	31.7	5104	08N/01W-14C01 M	120.0	10/24/84 03/13/85	36.5(18) 36.3(18)	63.2 83.7	5104
10N/01E-23Q02 M	87.0	10/29/84 03/20/85	54.7(14) 50.9	32.3 36.1	5104	08N/01W-16R02 M	128.0	10/16/84 10/24/84 03/13/85 03/15/85	39.0 41.4 37.4 36.8	89.0 86.6 90.4 91.2	5001 5104 5001 5001
10N/01E-24E01 M	83.0	10/29/84 03/20/85	57.6 48.1	25.4 34.9	5104	08N/01W-20M05 M	147.0	10/24/84 03/13/85	56.8 50.0	90.2 97.0	5104
10N/01E-26E03 M	97.0	10/29/84 03/20/85	52.0(1) 55.4	45.0 41.6	5104	08N/01W-20R06 M	124.0	10/16/84 03/14/85	NM-9 52.6		5001
10N/01E-27F01 M	100.0	10/30/84 03/15/85	63.4 56.5	36.4 43.5	5104	08N/01W-21M01 M	145.0	10/16/84 03/14/85	56.6 49.2	85.4 95.8	5001
						09N/01W-02A01 M	133.0	10/22/84 03/04/85	11.9 11.4	121.5 121.6	5104

TABLE D (CONTINUED)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND WATER	WATER SURFACE ELEV.	AGENCY	STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND WATER	WATER SURFACE ELEV.	AGENCY
A A-02 A-02.1	SACRAMENTO NB VALLEY PUTAM CREEK-HU LOWER PUTAM CREEK HA					A A-02 A-02.8	SACRAMENTO NB VALLEY PUTAM CREEK-HU LOWER PUTAM CREEK HA				
09H/01W-02002 M	136.0	10/22/84 03/04/85	17.2 14.0	118.8 122.0	5104	10H/02W-25001 M	232.0	10/22/84 03/04/85	41.0 30.6	191.0 195.4	5104
09H/01W-03601 M	146.0	10/22/84 03/04/85	11.4 9.9	136.6 138.1	5104	10H/02W-26M01 M	275.0	10/22/84 03/04/85	45.0 35.5	230.0 219.5	5104
09H/01W-04043 M	181.0	10/22/84 03/04/85	13.6 13.0	167.4 168.0	5104	10H/02W-26P01 M	325.0	10/22/84 03/04/85	110.6 119.7	214.4 205.3	5104
09H/01W-05M01 M	185.0	10/22/84 03/04/85	13.8 14.0	171.2 171.0	5104	10H/02W-28J01 M	365.0	10/22/84 03/04/85	56.1 60.3(4)	308.9 304.7	5104
09H/01W-07R01 M	210.0	10/22/84 03/04/85	22.6 24.6	187.4 185.4	5104	10H/02W-36A01 M	191.0	10/22/84 03/04/85	4.3 4.7	186.7 186.3	5104
09H/01W-08001 M	190.0	10/22/84 03/04/85	16.5(4) 15.4	173.5 170.6	5104	A-02.C LOWER CACHE CREEK HA					
09H/01W-09K01 M	166.0	10/22/84 03/04/85	7.7(8) 1.0	160.3 167.0	5104	10H/01E-07001 M	205.0	10/23/84 03/15/85	45.2 NM-9	159.6	5104
09H/01W-09P01 M	182.0	10/22/84 03/04/85	17.4(8) 17.1(8)	166.6 164.9	5104	10H/01E-18C01 M	185.0	10/23/84 03/15/85	50.2 40.5	134.6 135.5	5104
09H/01W-12G01 M	119.0	10/22/84 03/04/85	6.0 6.5	111.0 112.5	5104	10H/01E-29K01 M	110.0	10/28/84 03/04/85	31.8 31.5	78.2 78.5	5104
09H/01W-16N01 M	180.0	10/24/84 03/05/85	5.1 6.2	174.9 173.8	5104	10H/01W-02P01 M	173.0	10/23/84 03/15/85	22.7 22.1	150.3 150.9	5104
09H/01W-21E01 M	170.0	10/24/84 03/05/85	6.1(4) 4.8	163.9 165.2	5104	10H/01W-02001 M	193.0	10/23/84 03/15/85	52.4 48.5	140.6 144.5	5104
09H/01W-23001 M	143.0	10/24/84 03/05/85	10.3 NM-9	132.7 NM-9	5104	10H/01W-04C01 M	176.0	10/23/84 03/15/85	25.4 25.4	152.6	5104
09H/01W-24G01 M	125.0	10/24/84 03/05/85	8.2 7.5	118.8 117.5	5104	10H/01W-05E01 M	185.0	10/23/84 03/15/85	39.1 39.3	145.9 145.7	5104
09H/01W-33J01 M	169.0	10/24/84 03/05/85	17.6 21.9	151.4 147.1	5104	10H/01W-06A01 M	189.0	10/23/84 03/15/85	40.2 NM-9	148.8	5104
09H/01W-35M01 M	143.0	10/29/84 11/20/84 12/20/84 01/29/85 02/27/85 03/28/85 04/26/85 05/29/85 06/26/85 07/29/85 08/26/85 09/25/85	23.8 23.4 23.5 23.9 24.4 24.3 30.3 27.5 37.0 36.7 26.2 26.0	119.2 110.6 114.5 119.1 118.6 118.7 112.7 113.5 106.0 106.3 116.8 117.0	5050	10H/01W-06001 M	205.0	10/23/84 03/15/85	40.5 55.0	155.5 150.0	5104
09H/01W-36G03 M	119.5	10/24/84 03/05/85	13.5 13.7	106.0 105.8	5104	10H/01W-07R02 M	180.0	10/23/84 03/15/85	32.4 32.4	147.6	5104
10H/01W-19004 M	186.0	10/26/84 03/04/85	34.9 28.1	153.1 159.0	5104	10H/01W-08R01 M	175.0	10/23/84 03/15/85	29.8 29.2	146.2 146.6	5104
10H/01W-20R02 M	163.0	10/22/84 03/04/85	29.2 28.9	133.6 135.1	5104	10H/01W-09P02 M	171.0	10/23/84 03/15/85	23.2 24.8	147.6 146.2	5104
10H/01W-21J01 M	160.0	10/22/84 03/04/85	32.4 29.0	127.6 131.0	5104	10H/01W-15A02 M	155.0	10/23/84 03/15/85	18.8 10.7	136.2 135.3	5104
10H/01W-23P01 M	141.0	10/22/84 03/04/85	29.7 NM-9	111.3 NM-9	5104	10H/01W-15P02 M	160.0	10/23/84 03/15/85	27.9 27.3	132.1 132.7	5104
10H/01W-26003 M		10/21/84 03/14/85	NM-4 NM-4		5104	10H/01W-16G01 M	185.0	10/23/84 03/15/85	29.4(6) 20.9	135.6 135.1	5104
10H/01W-27C01 M	153.0	10/26/84 11/29/84 12/20/84 01/29/85 02/27/85 03/28/85 04/26/85 05/29/85 06/26/85 07/29/85 08/26/85 09/25/85	24.5 23.9 23.5 23.2 22.9 23.0 25.6 26.5 26.5 29.2 26.3 25.0	128.5 129.1 129.5 129.8 130.1 129.1 127.4 126.5 123.9 123.8 128.7 126.0	5050	10H/01W-17A01 M	170.0	10/23/84 03/15/85	28.2 30.7	141.8 139.3	5104
10H/01W-27F01 M	147.0	10/22/84 03/04/85	20.5 NM-4	126.5 NM-4	5104	10H/01W-18A01 M	170.0	10/23/84 03/15/85	30.8 30.8	148.2	5104
10H/01W-29P01 M	173.0	10/22/84 03/04/85	9.8 3.6	163.2 167.4	5104	10H/01W-18E01 M	184.0	10/23/84 03/15/85	27.7 27.7	160.3	5104
10H/01W-30K01 M	181.0	10/22/84 03/04/85	13.2 8.5	167.8 172.5	5104	10H/01W-24I02 M	137.0	10/23/84 03/15/85	19.2 10.6	117.6 117.4	5104
10H/01W-32G01 M	180.0	10/22/84 03/04/85	15.7 14.3	164.3 165.7	5104	10H/02W-01M02 M	225.0	10/23/84 03/15/85	41.0 41.8	194.0 183.2	5104
10H/01W-32E01 M	188.0	10/22/84 03/04/85	17.5 17.5	170.5 170.5	5104	10H/02W-07A01 M	280.0	10/26/84 03/22/85	15.5 17.9	284.5 282.1	5104
10H/01W-33F01 M	185.0	10/26/84 03/04/85	26.9 NM-9	138.1 NM-9	5104	10H/02W-14A01 M	200.0	10/23/84 03/15/85	52.5 53.9	147.5 146.1	5104
10H/01W-35001 M	135.0	10/22/84 03/04/85	17.3 14.2	117.7 116.8	5104	10H/02W-16R01 M	229.0	10/26/84 03/22/85	14.1 14.5	214.5 214.5	5104
10H/01W-36R02 M	131.0	10/22/84 03/04/85	22.7 25.0	104.3 106.0	5104	10H/02W-17J01 M	254.0	10/26/84 03/22/85	10.7 9.5	243.3 244.5	5104
						10H/02W-18P01 M	334.0	10/26/84 03/22/85	20.0 18.0	314.0 316.0	5104
						10H/02W-21G01 M	239.0	10/26/84 03/22/85	17.7 17.5	221.3 221.5	5104
						10H/03W-13E01 M	385.0	10/26/84 03/22/85	29.4 24.5	355.6 360.5	5104
						10H/03W-24R01 M	435.0	10/26/84 03/22/85	11.6 NM-9	418.4	5104
						11H/01W-19N01 M	229.0	10/30/84 03/15/85	16.0 NM-9	213.0	5104
						11H/01W-28001 M	222.0	10/23/84 03/15/85	15.7 18.5	208.3 203.5	5104
						11H/01W-31P01 M	202.0	10/23/84 03/15/85	45.8 50.4	156.2 151.6	5104

TABLE D (CONTINUED)
GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY	STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY
A A-02 A-02.C	SACRAMENTO HB VALLEY PUTAH-CACHE HU LOWER CACHE CREEK HA					A A-03 A-03.B	SACRAMENTO HB PUTAH CREEK HU UPPER PUTAH CREEK HA				
11N/01W-33M01 M	182.0	10/23/84 03/15/85	NM-3 30.2	151.8	5104	10N/07W-03A02 M	1107.7	10/15/84 04/01/85	NM-0 12.9	1094.8	9050
11N/01W-34P01 M	195.0	10/23/84 03/15/85	17.5 18.5	177.5 176.5	5104	11N/06W-19G01 M	967.8	10/15/84 04/01/85	17.7 14.3	950.1 951.9	9050
11N/02W-23A01 M	292.0	10/23/84 03/15/85	49.7 50.8	242.3 241.2	5104	11N/07W-35E01 M	1077.0	10/15/84 04/01/85	12.7 9.0	1064.3 1066.0	5050
11N/02W-24A01 M	250.0	10/23/84 03/15/85	NM-1 17.6	232.4	5104						
11N/02W-26A01 M	275.0	10/23/84 03/15/85	54.3 51.0	220.7 224.0	5104						
11N/02W-35E01 M		10/23/84 03/15/85	NM-4 NM-4		5104						
11N/03W-03101 M	345.0	10/26/84 03/22/85	NM-9 9.6	335.4	5104						
11P/03W-09001 M	415.0	10/26/84 03/22/85	20.7 8.1	394.3 406.9	5104						
11N/03W-15G01 M	330.0	10/26/84 03/22/85	17.4 20.9	312.6 309.1	5104						
11N/03W-23101 M	305.0	10/26/84 03/22/85	14.1 13.7	290.9 291.3	5104						
11N/03W-23M01 M	317.0	10/26/84 03/22/85	21.3 21.0(4)	295.7 296.0	5104						
11N/03W-34C01 M	370.0	10/26/84 03/22/85	27.7 35.9	342.3 334.1	5104						
12N/03W-18G02 M	435.0	10/26/84 03/22/85	34.5 37.0	400.5 396.0	5104						
12N/03W-20001 M	402.0	10/26/84 03/22/85	17.2 19.4	384.8 382.6	5104						
12N/03W-29K01 M		10/26/84 03/22/85	NM-8 NM-8		5104						
12N/03W-32001 M		10/26/84 03/22/85	NM-3 NM-3		5104						
12N/03W-33F01 M	361.0	10/26/84 03/22/85	17.7 18.5	343.3 344.5	5104						

TABLE D (CONTINUED)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY	STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY
A A-04 A-04.0 A-04.01	SACRAMENTO RR CACHE CREEK HU UPPER CACHE CREEK HA LOWER LAKE HSA					A A-04.0 A-04.04	SACRAMENTO RR CACHE CREEK HU UPPER CACHE CREEK HA LAKEPORT HSA				
12H/07V-11N01 M	1360.0	10/22/84 03/11/85	19.2 13.6	1340.8 1346.4	5050	13H/09V-10E01 M	1355.0	10/19/84 04/04/85	30.4 6.7	1324.6 1346.3	5111
A-04.03	LUCERNE HSA					13H/09V-11A02 M	1350.0	10/22/84 03/11/85	21.7 12.3	1328.3 1337.5	5050
14H/07V-19M01 M	1730.0	10/22/84 03/11/85	15.4 4.9	1714.6 1725.1	5050	13H/09V-11F01 M	1360.0	10/17/84 04/05/85	3.8 5.0	1356.2 1351.2	5111
14H/07V-19M02 M	1730.0	10/22/84 03/11/85	25.7 20.0	1704.3 1710.0	5050	13H/09V-12M02 M	1357.1	10/17/84 04/05/85	21.9 17.6	1335.2 1339.3	5111
14H/08V-23K01 M	1780.0	10/22/84 04/09/85	7.0 1.3	1773.0 1778.7	5111	13H/09V-14G02 M	1340.0	10/22/84 03/11/85	16.6 14.9	1323.4 1325.1	5050
14H/08V-24R02 M	1775.0	10/22/84 04/09/85	66.8 60.2	1706.2 1714.6	5111	13H/09V-14P02 M	1398.8	10/15/84 04/04/85	25.2 13.2	1373.6 1385.6	5111
14H/08V-24H01 M	1740.0	10/22/84 04/09/85	32.2 23.2	1707.8 1716.8	5111	13H/09V-15B02 M	1376.0	10/15/84 04/04/85	NM-2 21.1	1354.9	5111
14H/08V-24L01 M	1750.0	10/22/84 04/09/85	41.6 37.6	1708.4 1712.4	5111	13H/09V-15D01 M	1445.0	10/15/84 04/04/85	17.3 65.2	1427.7 1379.8	5111
A-04.04	LAKEPORT HSA					13H/09V-15J01 M	1420.0	10/15/84 04/04/85	16.3 16.4	1401.7 1403.6	5111
13H/09V-02C02 M	1345.0	10/17/84 04/05/85	24.8 15.2	1320.2 1329.8	5111	13H/09V-15M01 M	1409.0	10/15/84 04/04/85	13.8 11.7	1395.2 1397.3	5111
13H/09V-02E02 M	1341.0	10/22/84 03/11/85	28.6 15.4	1312.4 1325.6	5050	13H/09V-16E02 M	1379.0	10/15/84 04/04/85	21.2 6.3	1357.8 1372.5	5111
13H/09V-02H01 M	1334.6	10/17/84 04/05/85	15.4 3.7	1319.2 1330.9	5111	13H/09V-16L01 M	1380.0	10/15/84 04/04/85	12.6 .6	1367.4 1379.4	5111
13H/09V-02K03 M	1343.0	10/17/84 04/05/85	20.4 7.9	1322.6 1335.1	5111	13H/09V-17C02 M		10/17/84 04/05/85	NM-2 NM-2		5111
13H/09V-03A04 M	1340.0	10/22/84 03/11/85	28.2 16.4	1311.8 1323.6	5050	13H/09V-18J01 M	1400.0	10/15/84 04/03/85	16.2 13.9	1381.8 1386.1	5111
13H/09V-03F06 M	1349.0	10/22/84 03/11/85	29.4 14.2	1319.6 1334.8	5050	13H/09V-18R01 M	1389.0	10/22/84 03/11/85	10.7 .9	1378.3 1386.1	5050
13H/09V-03G01 M	1343.0	10/22/84 03/11/85	30.3 15.7	1312.7 1327.3	5050	13H/09V-19J01 M	1410.0	10/15/84 04/03/85	13.4 NM-7	1396.6	5111
13H/09V-03H04 M	1340.0	10/22/84 03/11/85	27.0 17.5	1313.0 1322.5	5050	13H/09V-20F01 M	1405.3	10/15/84 04/03/85	12.5 6.2	1392.8 1397.1	5111
13H/09V-03J05 M	1340.0	10/22/84 03/11/85	25.8 16.5	1314.2 1323.5	5050	13H/09V-20P01 M	1413.0	10/15/84 03/11/85	13.6 5.1	1399.4 1407.9	5050
13H/09V-03K01 M	1357.2	10/17/84 04/05/85	39.7 16.4	1317.5 1340.6	5111	13H/09V-21F02 M	1500.0	10/22/84 03/11/85	119.5 102.7	1380.5 1397.3	5050
13H/09V-03R02 M	1357.2	10/17/84 04/05/85	43.3 15.9	1313.9 1341.3	5111	13H/09V-21J01 M	1496.0	10/15/84 04/04/85	66.1 70.1	1427.9 1425.9	5111
13H/09V-04G01 M	1345.3	10/17/84 04/05/85	33.6 8.4	1311.7 1336.9	5111	13H/09V-22C02 M	1430.0	10/22/84 03/11/85	27.2 24.6	1402.8 1405.4	5050
13H/09V-04Q03 M	1357.0	10/15/84 04/04/85	40.5 9.9	1316.5 1347.1	5111	13H/09V-22F01 M	1444.0	10/15/84 04/04/85	35.8 39.7	1408.2 1409.3	5111
13H/09V-05J05 M	1352.0	10/17/84 04/05/85	27.2 10.9	1324.8 1341.1	5111	13H/09V-22M01 M	1485.0	10/15/84 04/04/85	100.9 60.6	1384.1 1404.4	5111
13H/09V-05R03 M	1355.0	10/22/84 03/11/85	28.1 14.5	1326.9 1340.5	5050	13H/09V-23F01 M	1426.9	10/15/84 04/04/85	42.6 41.4	1364.3 1385.5	5111
13H/09V-06H02 M	1349.0	10/15/84 04/03/85	26.7 11.3	1322.3 1337.7	5111	13H/09V-27D01 M	1504.0	10/15/84 04/04/85	13.8 13.9	1490.2 1490.1	5111
13H/09V-06M03 M	1349.3	10/15/84 04/03/85	26.2 11.4	1323.1 1337.9	5111	13H/09V-27Q01 M	1435.0	10/15/84 04/04/85	16.1 15.9	1414.9 1414.9	5111
13H/09V-06N01 M	1374.3	10/15/84 04/03/85	16.6 3.7	1357.7 1368.6	5111	13H/09V-28J02 M	1600.0	10/17/84 04/05/85	71.2 72.4	1528.8 1527.6	5111
13H/09V-07A03 M	1360.0	10/15/84 04/03/85	15.9 4.2	1344.1 1355.6	5111	13H/09V-28K01 M	1580.0	10/17/84 04/05/85	NM-3 18.1	1563.9	5111
13H/09V-07E01 M	1392.3	10/15/84 04/03/85	13.6 -2.6	1378.7 1395.1	5111	13H/09V-28N03 M	1500.0	10/17/84 04/05/85	110.4 110.5	1479.6 1479.5	5111
13H/09V-08K02 M	1372.6	10/17/84 04/05/85	25.3 12.6	1347.3 1360.0	5111	13H/09V-29R01 M	1550.0	10/17/84 04/05/85	42.5 90.6	1467.5 1459.4	5111
13H/09V-08M03 M	1368.0	10/22/84 03/11/85	8.4 -9.9	1356.6 1368.9	5050	13H/09V-30A01 M	1419.8	10/15/84 04/03/85	15.0 4.7	1404.8 1413.1	5111
13H/09V-09C04 M	1350.0	10/15/84 04/04/85	22.2 6.3	1327.8 1341.7	5111	14H/09V-31E01 M	1330.4	10/15/84 04/03/85	7.0 .6	1323.4 1329.8	5111
13H/09V-09Q01 M	1360.4	10/15/84 04/04/85	23.3 6.1	1337.1 1352.3	5111	14H/09V-31M01 M	1334.7	10/15/84 04/03/85	9.4 -3.3	1325.3 1335.0	5111
13H/09V-09D05 M	1396.0	10/15/84 04/04/85	23.0 8.4	1355.0 1346.6	5111	14H/09V-32C02 M	1334.5	10/17/84 04/05/85	14.2 7.6	1320.3 1326.9	5111
13H/09V-09F02 M	1355.0	10/19/84 03/11/85	28.5 10.9	1326.5 1344.1	5050	14H/09V-32M01 M	1335.2	10/17/84 04/05/85	12.6 NM-9	1322.6	5111
13H/09V-09L01 M	1360.0	10/15/84 04/04/85	21.6 2.8	1338.4 1357.2	5111	14H/09V-33M01 M	1336.5	10/17/84 04/05/85	16.1 6.1	1320.4 1328.4	5111
13H/09V-09Q02 M	1368.0	10/22/84 03/11/85	22.6 6.5	1345.4 1359.5	5050	14H/09V-33L03 M	1330.0	10/17/84	14.6	1315.4	5111

TABLE D (CONTINUED)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY	STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	* WATER SURFACE ELEV.	AGENCY
A A-04 A-04.0 A-04.04	SACRAMENTO NB CACHE CREEK MU UPPER CACHE CREEK HA LAKEPORT HSA					A A-05 A-05.4 A-05.41	SACRAMENTO NB VALLEY-AMERICAN MU MORRISON CREEK HA FRANKLIN HSA				
14N/09W-33L03 M	1330.0	04/05/83	3.6	1326.4	5111	05N/05E-04C01 M	13.0	10/29/54 11/27/54 12/18/54 01/24/55 02/26/55 03/23/55 04/25/55 05/24/55 06/27/55 07/25/55 08/23/55 09/23/55	47.5 53.6 52.1 50.6 49.1 48.2 51.6 42.4 37.7 44.1 58.2 56.8	-44.3 -40.6 -39.1 -37.6 -36.1 -35.2 -38.6 -39.8 -44.7 -45.2 -43.8	5050
14N/09W-33M02 M	1337.7	10/17/84 04/03/85	16.3 5.4	1321.4 1323.3	5111	05N/05E-10C03 M	23.8	03/15/85	43.7	-22.9	5050
14N/09W-33C03 M	1339.0	10/22/84 03/11/85	17.3 4.1	1321.7 1334.9	5050	05N/05E-10001 M	15.0	10/15/84 03/15/85	33.1 25.3	-18.1 -13.3	4202
14N/09W-34L03 M	1336.6	10/17/84 04/05/85	11.3 5.1	1325.3 1331.5	5111	06N/05E-01C01 M	39.3	10/29/84 11/27/84 12/18/84 01/25/85 02/22/85 03/22/85 04/29/85 05/28/85 06/24/85 07/25/85 08/22/85 09/24/85	111.4 110.5 109.6 108.3 107.5 106.0 106.8 108.8 111.3(4) 114.7 114.7 115.1	-72.5 -71.5 -70.3 -69.0 -68.2 -67.6 -67.5 -69.5 -72.0 -75.1 -75.4 -75.8	5050
14N/10W-03H01 M	1402.0	10/12/84 04/02/85	44.0 -1.3	1403.3	5111	06N/05E-01001 M	40.6	10/24/84 03/24/85 09/15/85	108.7 101.3 109.4	-68.1 -60.7 -68.8	5050
14N/10W-03P02 M	1410.0	10/22/84 03/11/85	1.2 -4.5	1408.8 1414.5	5050	06N/05E-04N02 M	20.5	10/10/84 03/25/85	59.1(11) 73.6(11)	-68.6 -53.1	5001
14N/10W-10001 M	1430.7	10/12/84 04/02/85	19.3 7.2	1411.4 1423.5	5111	06N/05E-10801 M	34.5	10/10/84 03/25/85	114.4 102.9	-80.1 -68.4	5081
14N/10W-11005 M	1412.0	10/22/84 03/11/85	9.2 -13.6	1402.8 1425.8	5050	06N/05E-10601 M	35.0	10/15/84 03/13/85	115.6 102.7	-79.6 -66.7	4202
14N/10W-11601 M	1420.3	10/12/84 04/02/85	7.5 1.2	1412.8 1419.1	5111	06N/05E-14J01 M	32.5	10/10/84 03/25/85	105.9 94.0	-73.4 -61.5	5001
14N/10W-14E02 M	1441.6	10/12/84 04/02/85	42.9 10.7	1398.7 1430.9	5111	06N/05E-16A01 M	22.0	10/10/84 03/25/85	99.0 88.1	-77.0 -66.1	5001
14N/10W-14F01 M	1440.0	10/12/84 04/02/85	39.4 8.3	1400.6 1431.7	5111	06N/05E-20R01 M	15.0	10/10/84 03/24/85	44.1 64.6	-48.6	5001
14N/10W-15H01 M	1445.0	10/22/84 03/11/85	40.8(8) 12.7(8)	1404.2 1432.3	5050	06N/05E-22C02 M	23.0	10/10/84 03/25/85	99.6 44.1	-75.6 -63.1	5001
14N/10W-22A01 M	1403.8	10/12/84 04/02/85	44.0 23.7	1440.1	5111	06N/05E-24R01 M	35.0	10/13/84 03/24/85	80.1 70.6	-42.1 -32.6	5001
14N/10W-23001 M	1342.2	10/15/84 04/03/85	3.4 1.9	1338.8 1340.3	5111	06N/05E-28F01 M	17.5	10/10/84 03/24/85	42.3 64.4	-64.8 -51.9	5001
A-04.05 UPPER LAKE HSA						06N/05E-34C02 M	23.0	10/10/84 03/24/85	86.0 77.4	-63.0 -54.4	5001
15N/09W-05L01 M	1385.6	10/12/84 04/02/85	12.5 3.5	1373.1 1382.1	5111	06N/05E-05JC2 M	55.0	10/10/84 03/25/85	86.2 40.4	-31.2 -25.4	5001
15N/09W-06R01 M	1385.6	10/12/84 04/02/85	24.5 11.5	1341.1 1354.1	5111	06N/06E-07A02 M	47.0	10/15/84 03/20/85	92.2 46.5	-45.2 -49.3	5108
15N/09W-06E02 M	1364.1	10/12/84 04/02/85	24.0 9.5	1340.1 1354.6	5111	06N/06E-07M01 M	42.0	10/10/84 03/25/85	105.4 96.1	-63.4 -54.1	5001
15N/09W-06A01 M	1361.5	10/12/84 04/02/85	23.6 9.5	1337.9 1352.0	5111	06N/06E-18F01 M	43.5	10/10/84 03/25/85	91.1 44.5	-47.6 -41.0	5001
15N/09W-07G01 M	1346.4	10/22/84 03/11/85	12.7 2.8	1333.7 1343.6	5050	06N/06E-18601 M	44.9	10/14/84 03/21/85 09/15/85	88.6 79.1 92.2	-43.7 -34.2 -47.3	5050
15N/09W-09L01 M	1430.4	10/12/84 04/02/85	29.8 3.6	1401.6 1426.6	5111	07N/05E-15H01 M	24.0	10/15/84 03/20/85	43.1 79.5	-55.1 -51.5	5108
15N/09W-18H03 M	1331.0	10/12/84 04/02/85	9.1 1.8	1321.9 1329.2	5111	07N/05E-20E01 M	30.0	10/12/84	44.4	-47.8	5108
15N/10W-01R01 M	1356.1	10/12/84 04/02/85	20.4 6.2	1335.7 1349.9	5111	07N/05E-24H01 M	30.0	10/15/84 03/15/85	106.8 102.6	-67.8 -63.6	4202
15N/10W-03001 M	1362.0	10/12/84 04/02/85	10.4 3.5	1351.6 1358.5	5111	07N/05E-26C01 M	25.6	10/24/84 03/01/85 09/18/85	86.5 41.3 88.1	-58.2 -52.7 -59.9	5050
15N/10W-03N01 M	10/12/84 04/02/85	44.0 44.0			5111	07N/05E-26P02 M	30.0	10/15/84 03/20/85	44.3 44.3	-64.3	5108
15N/10W-04R01 M	1373.5	10/12/84 03/11/85	14.0 2.4	1359.5 1371.1	5111	07N/05E-27E01 M	22.5	10/12/84 03/15/85	71.9 66.5	-49.4 -44.0	5108
15N/10W-04R03 M	1382.0	10/22/84 03/11/85	13.2 3.1	1368.8 1378.9	5050	07N/05E-28P01 M	24.0	10/15/84 03/15/85	80.3 74.6	-56.3 -50.6	4202
16N/09W-31C03 M	1408.2	10/12/84 04/02/85	36.9 23.2	1371.3 1385.0	5111	07N/05E-29C01 M	17.0	10/12/84 03/18/85	47.8 48.4	-40.8 -31.4	5108
16N/09W-31C01 M	1387.5	10/12/84 04/02/85	22.7 3.8	1364.8 1383.7	5111	07N/05E-32001 M	17.0	10/23/84 03/15/85	52.0 40.7	-35.8 -32.7	5050
16N/10W-34N01 M	1394.1	10/12/84 04/02/85	20.6 3.6	1373.5 1390.5	5111	07N/05E-32*01 M	19.5	10/25/84	43.7	-44.2	5050

TABLE D (CONTINUED)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY	STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY
SACRAMENTO NB VALLEY-AMERICAN NB A-05.A A-05.A1 MORRISON CREEK NB FRANKLIN HSA						SACRAMENTO NB VALLEY-AMERICAN NB A-05.A2 MORRISON CREEK NB FLORIN HSA					
07N/05E-32K01 M	19.5	03/19/85	62.1	-42.6	9050	08N/05E-21N02 M	39.5	10/15/84 03/20/85	92.3 55.6	-12.8 -16.1	5108
07N/05E-34L01 M		10/15/84 03/18/85	NM-3 101.1	-72.1	5108	08N/05E-30A01 M	27.3	10/04/84 03/21/85 04/15/85	46.6 45.4 46.0	-19.3 -18.1 -20.7	5050
07N/05E-36A01 M		10/15/84 03/20/85	NM-7 NM-7		5108	08N/05E-32P01 M	21.7	10/04/84 03/21/85 04/15/85	60.1 52.0 61.7	-38.4 -50.3 -40.0	
07N/06E-10M02 M	85.0	10/15/84 03/15/85	126.3 117.1	-41.3 -32.1	4202	08N/05E-33J01 M	26.0	03/08/85 04/20/85	63.9 60.4	-37.9 -43.4	5050
07N/06E-12A01 M	115.0	10/16/84 03/21/85	119.5 117.5	-4.5 -2.5	5108	08N/05E-09Q04 M	74.0	10/19/84 03/27/85	65.8 65.2	8.2 8.8	5050
07N/06E-14A01 M	90.0	10/16/84 03/21/85	105.4 96.0	-15.4 -6.0	5108	08N/06E-17M01 M	71.9	10/12/84	90.4	-18.5	5108
07N/06E-15N01 M		10/15/84 03/21/85	NM-3 NM-3		5108	08N/06E-20R01 M	57.4	10/18/84 03/28/85	80.9 73.3	-23.5 -15.9	5108
07N/06E-20J01 M	97.0	10/18/84 03/21/85	101.5 95.0	-44.5 -38.0	5108	08N/06E-21C01 M	71.0	10/19/84 03/07/85	78.7 76.0	-7.7 -5.0	5050
07N/06E-22C02 M	60.0	10/15/84 03/15/85	94.7 87.5	-34.7 -27.5	4202	08N/06E-21M02 M	65.0	10/15/84 03/07/85 03/15/85	82.3 76.5 76.1	-17.3 -11.5 -11.1	4202
07N/06E-22Q02 M	70.0	10/16/84 03/21/85	94.8 85.5	-24.8 -15.5	5108	08N/06E-25J02 M	141.0	10/12/84 03/28/85	134.5 131.3	6.5 9.7	5050
07N/06E-28N01 M	59.0	10/15/84 03/15/85	101.2 94.6	-42.2 -35.6	4202	08N/06E-26K01 M	123.0	10/18/84 03/28/85	133.7 136.1	-10.7 -13.1	5108
07N/06E-32P01 M	50.5	10/15/84 03/20/85	108.0 95.0	-57.5 -44.5	5108	08N/06E-27H02 M	93.7	10/18/84	105.0	-11.3	5108
07N/06E-33J01 M	63.0	03/22/85	74.6	-11.6	5050	08N/06E-27M01 M	79.0	10/18/84 03/28/85	101.0 94.3	-22.0 -15.3	5108
09N/06E-34R01 M	96.3	10/12/84 03/07/85	70.9 68.9	25.4 27.4	5050	08N/06E-30C01 M	50.0	10/15/84 03/21/85	73.1 75.0	-23.1 -25.0	5108
A-05.A2 FLORIN HSA						08N/06E-31F01 M	51.0	10/15/84 03/21/85	91.0 84.0	-40.0 -33.0	5108
07N/05E-01M02 M	45.0	10/05/84 03/01/85 09/20/85	94.8 91.5 93.9	-49.8 -48.5 -48.9	5050	08N/06E-33M01 M	64.7	10/15/84 03/21/85	100.7 86.5	-36.0 -23.8	5108
07N/05E-01J01 M	44.0	10/15/84 03/15/85	97.0 94.6	-53.0 -50.6	4202	08N/06E-34R01 M	106.4	10/16/84 03/21/85	125.8 124.8	-19.4 -18.4	5108
07N/05E-04A01 M	21.4	10/04/84 03/01/85 09/16/85	58.8 56.9 62.5	-37.4 -35.5 -41.1	5050	08N/07E-02M01 M	257.6	10/16/84 03/29/85	144.8 137.0	112.8 120.6	5108
07N/05E-10M01 M	26.5	10/04/84 03/01/85 06/18/85	69.3 67.7 70.2	-42.8 -41.2 -43.7	5050	08N/07E-07K01 M	141.0	10/12/84 03/27/85	98.1 94.8	42.9 46.2	5050
07N/05E-18C01 M	12.0	10/12/84 03/21/85	24.2 NM-7	-12.2	5108	08N/07E-08R01 M	140.0	10/12/84 03/27/85	125.5 121.8	94.5 96.2	5050
07N/06E-01A01 M	115.0	10/14/84 03/15/85	121.6 107.7	-6.6 7.3	4202	08N/07E-14C01 M	254.2	10/16/84 03/29/85	140.6 130.0	113.6 124.2	5108
07N/06E-08H01 M	59.5	10/15/84 03/21/85	101.1 95.0	-42.6 -30.5	5108	08N/07E-18E02 M	125.0	10/12/84 03/08/85	107.7 106.5	17.3 18.5	5050
08N/04E-02K07 M	21.0	03/05/85 09/27/85	24.8 23.1	-3.8 -2.1	5050	08N/07E-20J01 M	164.0	10/12/84 03/07/85	120.3 116.9	43.7 47.1	5050
08N/04E-11P01 M	17.0	10/12/84 03/14/85	16.6 12.6	4.4 4.4	5108	08N/07E-22G01 M	220.0	10/12/84 03/08/85	160.0 157.9	60.0 62.1	5050
08N/04E-12D01 M	15.0	10/03/84 03/05/85 06/27/85	24.2 24.1 24.6	-9.2 -9.1 -9.6	5050	08N/07E-27C01 M	210.0	10/12/84 03/28/85	157.5 156.4	52.5 53.6	5050
08N/04E-24M01 M	25.0	10/05/84 03/05/85 06/20/85	30.5 28.7 30.5	-5.5 -3.7 -5.5	5050	08N/07E-31J01 M	115.4	10/18/84 03/28/85	99.0 81.2	16.4 34.2	5108
08N/04E-36L01 M	5.0	10/12/84 03/14/85	19.8 18.6	-14.8 -13.6	5108	08N/07E-33E01 M	145.3	10/16/84 03/28/85	80.9 74.8	64.4 70.5	5108
08N/05E-06H01 M	22.2	10/19/84 03/20/85	21.9 20.0	.3 2.2	5050	09N/07E-31G01 M	133.3	10/18/84 03/07/85	69.9 67.5	63.4 65.8	5050
09N/05E-07P01 M		10/30/84 11/27/84 12/18/84 01/28/85 02/22/85 03/22/85 04/22/85 05/30/85 06/24/85 07/26/85 08/22/85 09/27/85 08/30/85	23.5 23.4 23.2 23.4 23.5 23.4 23.6 23.7 24.0 24.4 24.6 24.7 23.6	-1.3 -1.2 -1.0 -1.2 -1.3 -1.2 -1.4 -1.5 -1.8 -2.2 -2.4 -2.5 -1.4		A-05.B COON-AMERICAN NB A-05.B1 LOWER AMERICAN HSA					
08N/05E-15E01 M	37.0	10/19/84 03/08/85	44.3 43.5	-7.3 -6.5	5050	09N/05E-08J02 M	39.0	10/05/84 03/09/85	49.2 48.9	-16.2 -15.9	5050
08N/05E-18K01 M	19.9	10/04/84 03/05/85 04/18/85	22.6 23.6 24.1	-2.7 -3.7 -4.2	5050	09N/05E-12J01 M	80.0	10/03/84 03/21/85	113.0 99.4	-33.0 -19.4	5050
08N/05E-18Q01 M	24.7	10/04/84 03/01/85 09/16/85	26.0 26.0 26.8	-1.3 -1.3 -2.1	5050	09N/05E-12L01 M	75.0	10/33/84 03/20/85	111.4 99.0	-36.4 -24.0	5050
						09N/05E-14M03 M	64.0	10/05/84 03/01/85	97.9 80.2	-33.9 -25.2	5050
						09N/05E-14L01 M	60.0	10/22/84 03/21/85	94.3 90.4	-34.3 -30.4	5050
						09N/05E-16K01 M	43.0	10/25/84 03/25/85	76.2 69.4	-33.2 -26.4	5050
						09N/05E-18P01 M	31.0	10/23/84 04/21/85	43.9 36.8	-12.9 -5.8	5108

TABLE D (CONTINUED)

GROUND WATER LEVELS AT WELLS												
STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY	STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY	
A A-05 A-05.81	SACRAMENTO NR VALLEY-AMERICAN MU COON-AMERICAN HA LOWER AMERICAN HSA					A A-05 A-05.81	SACRAMENTO NR VALLEY-AMERICAN MU COON-AMERICAN HA LOWER AMERICAN HSA					
09H/05E-21M01 M	34.0	10/05/84 02/26/85 03/05/85 03/29/85 04/29/85 05/30/85 06/27/85 07/26/85 08/26/85 09/04/85 09/24/85	54.2 80.7 87.4 79.6 85.2 88.3 93.3 93.5 NM-1 95.2 92.8	-20.2 -46.7 -18.6 -43.6 -31.2 -34.3 -39.3 -81.9 -61.2 -56.8	5050	10H/06E-03M01 M	141.0	07/30/85 08/27/85 09/26/85	141.3 141.8 141.6	-3 -8 -8	5050	
09H/05E-25J01 M		04/29/85 05/30/85 06/27/85 07/26/85 08/26/85 09/04/85 09/24/85	85.2 88.3 93.3 93.5 NM-1 95.2 92.8	-31.2 -34.3 -39.3 -81.9 -61.2 -56.8		10H/06E-10C01 M	145.4	10/24/84 04/31/85	135.7 136.2	7.7 10.2	5050	
						10H/06E-13C01 M	168.7	10/22/84 03/28/85	171.6 169.8	15.1 16.9	5050	
						10H/06E-19K02 M	190.0	10/29/84 02/28/85	179.9 172.0	-29.9 -22.0	5050	
	63.0	10/30/84 11/26/84 12/18/84 01/23/85	87.8 NM-9 84.1 82.3	-22.8 -19.1 -17.3	5050	10H/06E-21F02 M		10/25/84	NM-7		5108	
09H/05E-27J01 M	44.0	03/05/85	84.7	-20.7	5050	10H/07E-16R01 M	152.0	10/22/84 03/24/85	121.8 120.3	30.2 31.7	5050	
09H/05E-28M01 M	37.6	10/05/84 03/01/85	63.4 58.9	-25.8 -21.3	5050	10H/07E-20K01 M		10/23/84	NM-3		5108	
09H/05E-28K01 M	32.9	10/03/84 03/01/85	59.2 51.5	-22.3 -18.6	5050	10H/07E-29G01 M	210.0	10/22/84 04/31/85	NM-0 NM-9		5108	
09H/05E-28N01 M	40.0	10/03/84 03/01/85	47.3 46.1	-7.3 -6.1	5050	10H/07E-32M01 M	215.0	10/22/84 04/01/85	164.4 164.1	50.6 50.9	5108	
09H/06E-02P01 M	160.0	10/22/84 04/01/85	136.4 146.8	1.6 13.2	5108	11H/04E-24R01 M	47.0	11/06/84 03/14/85	92.2 76.3	-35.2 -31.3	5419	
09H/05E-12Q01 M	205.5	10/22/84 04/01/85	32.6 32.5	172.9 173.0	5108	11H/05E-32R01 M	70.0	10/30/84 11/27/84 12/18/84 01/26/85 02/28/85 03/29/85 04/28/85 05/28/85 06/27/85 07/30/85 08/27/85 09/26/85	104.0 102.3 101.4 99.7 98.9 97.6 100.0 109.0 111.0 113.4 113.4 107.5	-34.0 -32.3 -31.4 -30.7 -26.9 -27.8 -38.0 -11.0 -41.0 -43.4 -43.8 -37.5	5050	
09H/06E-26C01 M	96.3	10/22/84 03/28/85	66.0 56.8	30.3 39.5	5108							
09H/06E-27J01 M	71.0	10/22/84	50.0	21.0	5108							
09H/06E-33R01 M	73.2	10/22/84 03/28/85	50.9 46.8	22.3 26.4	5108							
09H/06E-36C01 M	110.0	10/19/84 03/07/85	53.4 52.7	56.6 57.3	5050							
09H/06E-36M01 M	118.0	10/19/84 03/07/85	85.4 81.7	32.6 36.3	5050	A-05.82	PLEASANT GROVE HSA					
09H/07E-07F01 M	204.2	10/22/84 04/01/85	164.6 139.2	39.6 45.0	5108	09H/03E-02K01 M	23.0	10/24/84 04/32/85	14.6 14.3	7.4 8.7	5108	
09H/07E-09A01 M	192.0	10/22/84 04/01/85	79.0 73.0	113.0 119.0	5108	09H/04E-01R01 M	19.5	10/23/84 04/31/85	24.3 22.3	-4.8 -2.8	5108	
09H/07E-27J01 M	224.1	10/18/84 03/28/85	27.0 10.5	197.1 193.6	5108	09H/04E-08L01 M	24.0	10/23/84 04/02/85	21.7 NM-7	2.3	5108	
10H/04E-12A01 M	43.1	11/13/84 04/09/85	66.4 57.8	-23.3 -14.7	6244	09H/04E-10C01 M	17.0	10/25/84 03/05/85	9.8 9.0	7.2 7.0	5050	
10H/03E-04Q01 M	72.2	10/24/84 04/01/85	104.8 99.3	-32.6 -27.1	5050	09H/04E-22E01 M	12.0	10/25/84 03/05/85	7.7(14) 6.1(14)	4.3 5.9	5050	
10H/05E-09E01 M	95.0	10/25/84 04/01/85	68.2 63.9	-33.2 -28.9	5050	09H/04E-27F01 M	24.0	10/23/84 04/31/85	24.9 20.3	-1 3.7	5108	
10H/05E-08L02 M	51.5	10/30/84 04/01/85	81.7 NM-9	-30.2	5050	10H/03E-39A01 M	16.9	10/24/84 04/02/85	9.1 NM-1	9.9 10.8	5108	
10H/05E-12K01 M	105.0	10/24/84 04/01/85	109.3 108.7	-4.3 -3.7	5050	10H/04E-02K01 M	25.0	11/14/84 04/09/85	NM-9 31.9	-8.9	6244	
10H/05E-22G01 M	69.0	10/29/84 11/29/84 12/26/84 01/28/85 02/26/85 03/27/85 04/29/85 05/28/85 06/25/85 07/26/85 08/27/85 09/26/85	94.0 91.9 91.0 90.1 89.8 88.8 90.9 97.1 94.4 101.6 102.4 99.0	-25.0 -22.9 -22.0 -21.1 -20.8 -19.8 -21.9 -28.1 -30.4 -32.6 -33.4 -30.0	5050	10H/04E-21R02 M	16.0	10/24/84 04/32/85	7.3 5.5	6.7 10.5	5108	
						10H/04E-23A01 M	15.0	10/24/84 04/32/85	11.6 9.9	3.4 5.9	5108	
						10H/04E-24B01 M	22.0	10/24/84 04/32/85	24.6 21.2	-2.6 .8	5108	
						10H/04E-36R01 M	37.0	10/25/84 03/35/85	36.4 35.3	.6 1.7	6030	
						11H/03E-01T01 M	25.6	11/14/84 04/33/85	12.3 7.2	13.3 16.4	6244	
10H/05E-26R02 M	81.0	10/25/84 04/04/85	101.9 NM-7	-20.9	5108	11H/03E-03C02 M	26.4	11/14/84 04/36/85	9.9 10.0	16.9 16.4	6244	
10H/05E-30L01 M	36.0	10/24/84 04/02/85	58.2 41.2	-22.2 -5.2	5108	11H/03E-15C01 M	26.7	11/14/84 04/06/85	11.3 15.3	17.4 11.4	6244	
10H/05E-32Q02 M	39.0	10/05/84 03/05/85	51.7 49.4	-12.7 -10.4	5050	11H/04E-01M02 M	45.5	10/30/84 11/25/84 12/18/84 01/25/85 2/2/85 03/27/85 04/29/85 05/28/85 06/27/85 07/30/85 08/27/85 09/26/85	33.9 33.2 32.5 31.3 30.7 29.6 35.9 41.0 39.9 40.4 39.6 36.2	12.6 12.3 13.2 14.2 14.8 29.6 9.8 4.9 5.6 5.1 5.9 9.3	5050	
10H/05E-34M01 M		10/24/84 04/02/85	NM-7 77.5		5108							
10H/06E-03P01 M	136.0	10/24/84 04/01/85	132.9 129.9	3.1 6.1	5050							
10H/06E-09M01 M	141.0	10/30/84 11/27/84 12/18/84 01/28/85 02/28/85 03/29/85 04/29/85 05/28/85 06/27/85 07/30/85 08/27/85 09/26/85	140.5 138.9 134.1 135.7 135.8 135.5 136.6 136.3 136.6 136.3 136.3 136.3	5 2.1 2.9 4.3 4.2 4.8 4.4 4.4 4.4 4.4 4.4 4.4	5050	11H/04E-01M03 M	44.3	11/15/84 04/09/85	37.3 31.1	9.0 15.2	6244	
						11H/04E-03P02 M	35.0	11/15/84 04/09/85	21.5 22.5	13.5 12.5	6244	

TABLE (CONTINUED)
GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY	STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY
4 A-05 A-05.0 A-05.02	SACRAMENTO HR VALLEY-AMERICAN HU COON-AMERICAN NA PLEASANT GROVE H54					A A-05 A-05.0 A-05.02	SACRAMENTO HR VALLEY-AMERICAN HU COON-AMERICAN NA PLEASANT GROVE H54				
11N/04E-09002 M	28.0	10/25/84 03/27/83	13.9 14.0(1)	12.1 14.0	3050	12N/04E-16A04 M	40.0	11/35/84 03/14/85	11.3 7.3	28.7 32.7	5413
11N/04E-13001 M	47.4	11/15/84 04/09/85	49.4 52.3	-2.0 -4.9	6244	12N/04E-18001 M	31.4	11/14/84 04/09/85	12.0 10.8	19.4 20.8	6244
11N/04E-13001 M	50.0	11/06/84 03/14/85	81.3 88.3	-31.3 -18.3	5413	12N/04E-20C01 M	32.0	11/06/84 03/14/85	11.7 5.2	20.3 26.8	5413
11N/04E-15C01 M	30.9	11/15/84 04/09/85	22.5 23.8	8.4 7.3	6244	12N/04E-20P01 M	29.0	11/06/84 03/14/85	11.3 5.0	17.7 24.0	5413
11N/04E-15001 M	33.1	11/06/84 03/14/85	33.2 28.7	-1.1 4.4	5413	12N/04E-24H02 M	52.0	11/05/84 03/14/85	19.1 16.1	32.9 35.9	5413
11N/04E-19E02 M	29.0	11/14/84 04/08/85	10.5 11.0	18.5 18.0	6244	12N/04E-34H01 M	38.0	11/05/84 03/14/85	12.8 6.2	23.2 31.8	5413
11N/04E-34H01 M	23.0	10/24/84 03/27/83	19.7 19.9	3.3 3.1	3050	12N/04E-35H02 M	45.0	11/15/84 04/09/85	34.2 24.2	11.8 21.8	6244
11N/05E-06H01 M	59.0	10/24/84 04/02/83	56.3 51.1	2.7 7.9	3050	12N/05E-01002 M	97.8	10/25/84 04/03/85	32.6 27.0	65.2 70.8	3050
11N/05E-07H01 M	63.0	10/24/84 04/02/83	78.2 67.8	-15.2 -4.8	3050	12N/05E-01R01 M	112.3	10/25/84 03/29/83	46.7 38.4	65.8 74.1	3050
11N/05E-15G01 M	74.7	10/30/84 04/02/83	NM-9 80.6	-3.9 -9.9	3050	12N/05E-04F01 M	77.0	10/25/84 04/23/83	30.4 26.5	46.6 50.5	3050
11N/05E-16H01 M	88.0	10/30/84 04/02/85	114.3 97.6	-26.3 -9.6	3050	12N/05E-06J03 M	62.0	10/25/84 04/01/83	15.2 14.4	46.8 47.6	3050
11N/05E-17A04 M	72.0	10/25/84 04/02/83	93.4 81.3	-21.4 -9.3	3050	12N/05E-06R01 M	69.0	10/25/84 04/23/83	27.3 25.4	41.7 43.6	3050
11N/05E-18R01 M	61.0	11/08/84 03/14/85	83.8 75.0	-22.8 -14.0	5413	12N/05E-07H01 M	68.5	10/25/84 04/03/85	28.8 27.1	39.7 41.4	3050
11N/05E-20C01 M	63.0	10/24/84 04/02/83	99.4 85.7	-36.4 -22.7	3050	12N/05E-12001 M	106.0	10/30/84 11/27/84	49.8 48.0	36.2 38.0	3050
11N/05E-23A01 M	88.0	10/24/84 04/02/83	99.0 91.3	-13.0 -5.3	3050			12/18/84 01/28/85	46.9 44.9	59.1 61.1	
11N/05E-28C01 M	70.0	10/24/84 04/02/85	98.8 89.0	-28.8 -19.0	3050			02/28/85 03/28/85	43.3 42.2	62.3 63.8	
11N/05E-29G02 M	64.0	10/24/84 04/02/83	93.4 86.7	-29.4 -22.7	3050			04/29/85 03/28/85	61.3 52.6	44.7 53.4	
								06/27/85 07/30/85	72.5 76.1	33.5 29.9	
11N/06E-06A01 M	125.0	10/22/84 03/28/85	101.9 97.8	23.1 27.2	3050			08/27/85 09/26/85	64.9 56.9	41.1 49.1	
11N/06E-19C04 M	116.0	10/22/84 04/02/83	77.9 73.4	38.1 42.6	3050	12N/05E-14A01 M	103.4	10/25/84 04/02/83	64.9 35.4	38.5 48.0	3050
11N/06E-16H02 M	112.0	10/22/84 03/28/85	78.1 71.6	33.9 40.4	3050	12N/05E-17A02 M	75.0	10/30/84 11/27/84	49.0 46.4	26.0 24.0	3050
11N/06E-18P05 M	85.0	10/22/84 04/02/85	41.3 38.9	43.5 46.1	3050			12/18/84 01/28/85	48.1 46.7	24.9 28.3	
11N/06E-30F02 M	105.0	10/22/84 04/02/85	116.2(1) 112.7	-11.2 -7.7	3050			02/28/85 03/28/85	45.8 45.2	29.2 29.8	
11N/06E-32F03 M	125.8	10/23/84 04/01/85	126.4 123.3	-1.6 2.3	3050			04/29/85 03/28/85	45.1 46.6	29.9 26.4	
11N/06E-34H01 M	161.0	10/30/84 03/28/85	114.0 113.4	47.0 47.6	3050			06/27/85 07/30/85	52.0 52.6	23.0 22.4	
12N/03E-23H01 M	30.0	11/14/84 04/08/85	11.5 13.2	18.5 16.8	6244	12N/05E-18R01 M	65.0	10/25/84 04/23/83	45.3 38.1	20.7 27.9	3050
12N/03E-24A01 M	24.5	11/14/84 04/08/85	9.0 7.1	15.5 17.4	6244	12N/05E-26001 M	90.0	10/25/84 04/02/85	70.3 63.7	19.5 26.3	3050
12N/03E-24001 M	10.0	04/08/85	6.7	23.3	6244	12N/05E-26H02 M	91.0	10/25/84 04/02/85	66.1 39.5	24.9 31.5	3050
12N/03E-26R01 M	11/14/84 04/08/85	NM-4 NM-4			6244	12N/05E-28C01 M	77.0	10/25/84 04/23/85	67.3 58.9	9.7 18.1	3050
12N/04E-02A01 M	58.0	11/06/84 03/14/85	6.9 1.1	49.1 54.9	5413	12N/05E-29001 M	64.0	10/25/84 04/02/83	42.9 39.3	21.1 25.7	3050
12N/04E-02P01 M	50.0	11/14/84 04/08/85	8.8 8.6	41.2 41.4	6244	12N/05E-31A01 M	59.0	11/06/84 03/14/85	47.3 42.3	11.5 18.7	5413
12N/04E-05R04 M	41.0	10/30/84 11/08/84 11/28/84 12/21/84 01/29/85 02/27/85 03/14/85 03/27/85 04/26/85 05/29/85 06/27/85 07/29/85 08/27/85 09/26/85	16.4 16.3 15.4 14.2 13.6 13.2 12.8 12.6 14.7(1) 18.9(1) 21.8(1) 22.8(1) 24.3 21.8	24.6 24.7 25.0 26.8 27.2 27.5 28.2 28.4 26.3 22.1 19.2 18.2 16.7 19.4	3050 3415 3050 6244 3050 5413 3050	12N/05E-33E02 M	90.2	10/25/84 04/02/83	80.2 80.7	1.0 9.5	3050
12N/04E-08R03 M	34.0	10/24/84 03/14/85	15.9 7.0	18.1 27.0	5413	12N/06E-06A01 M	123.5	10/25/84 04/23/85	39.3 34.9	84.2 88.6	3050
12N/04E-10002 M	49.0	11/05/84 03/14/85	11.4 8.3	36.6 39.7	5413	12N/06E-1A001 M	132.9	10/25/84 04/23/85	36.7 55.3	76.2 77.6	3050
						12N/06E-20P03 M	129.0	10/25/84 04/02/85	77.6 76.2	53.4 52.8	3050
						12N/06E-27002 M	139.0	10/25/84 04/02/85	87.2 47.0	31.8 52.0	3050
						12N/06E-28H01 M	128.5	10/22/84 04/02/85	85.7 41.9	42.8 46.6	3050
						12N/06E-30L01 M	108.3	10/25/84	67.6	42.7	3050

TABLE D (CONTINUED)

GROUND WATER LEVELS AT WELLS											
STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY	STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY
A A-05 A-05.8 A-05.82	SACRAMENTO HR VALLEY-AMERICAN HU COON-AMERICAN HA PLEASANT GROVE HSA					A A-07 A-07.A	SACRAMENTO HR COLUSA BASIN HU SYCAMORE-SUTTER HA				
12N/00E-32K01 M	117.0	10/22/84 03/28/83	86.0 84.1	29.0 32.9	5030	11N/03E-20M03 M	27.0	11/19/84 04/10/83	8.2 10.3	18.8 16.7	6244
13N/04E-22G01 M	34.5	04/09/85	23.4	31.1	6244	12N/02E-20P01 M	29.0	11/19/84 04/10/83	NM=0 7.0	18.0	6244
13N/04E-23A02 M	57.0	10/24/84 03/14/83	16.4 16.0	40.6 41.0	5413	12N/02E-23K01 M	20.0	11/19/84 04/13/83	5.1 4.1	14.9 13.9	6244
13N/04E-26R01 M	59.0	11/13/84 04/09/83	32.0 24.6	27.0 34.4	6244	13N/01E-11A01 M	31.8	10/30/84 03/07/83	14.1(4) 6.6	17.7 23.2	5050
13N/04E-26R01 M	46.0	11/05/84 03/14/83	22.5 16.1	25.5 29.9	5415	13N/01E-12J02 M	38.0	11/19/84 04/11/83	11.6 14.1	26.4 23.9	6244
13N/04E-29A02 M	40.0	10/24/84 03/14/83	16.6 12.3	23.2 27.7	5415	13N/02E-17A01 M	23.0	10/26/84 04/04/83	6.4 6.2	18.6 16.6	5050
13N/04E-29F01 M	39.0	04/09/85	10.8	28.2	6244	13N/03E-32M01 M	23.0	11/19/84 04/10/83	2.4 4.9	20.6 18.3	6244
13N/04E-32G01 M	45.0	10/24/84 03/14/83	17.8 13.4	27.2 29.6	5415	14N/01E-08A06 M	39.0	11/19/84 04/10/83	5.3 8.6	33.3 32.4	6244
13N/04E-36E01 M	60.0	10/30/84 11/28/84 12/16/84 01/26/85 02/26/85 03/27/85 04/29/85 05/26/85 06/27/85 07/30/85 08/27/85 09/26/85	23.0 22.9 22.3 21.5 20.9 20.3 23.6 29.6 46.4 NM-1 39.2 26.3	37.0 37.1 37.7 36.3 39.1 39.7 36.2 30.4 11.6 20.8 33.5	5030	14N/01E-14G01 M	37.0	11/19/84 04/11/83	6.6 6.1	30.4 30.9	6244
13N/03E-26M01 M	80.2	11/13/84 04/09/85	35.0 23.3	45.2 36.9	6244	14N/01E-21L01 M	37.0	10/30/84 03/37/83	10.6 9.7	26.4 27.3	5050
13N/03E-30A01 M	70.5	11/13/84 04/09/85	42.3 23.6	26.2 44.7	6244	14N/01E-24Q01 M	37.0	11/19/84 04/11/83	8.0 9.4	29.0 27.6	6244
13N/05E-31K01 M	68.0	11/05/84 03/14/83	24.0 21.0	43.1 47.0	5413	14N/02E-31K01 M	31.0	11/19/84 04/11/83	7.0 5.1	24.0 23.9	6244
13N/05E-34P01 M	67.0	10/23/84 04/03/83	27.3 24.2	39.7 62.8	5030	15N/01E-16R01 M	43.5	11/12/84 04/12/83	7.4 6.6	33.1 33.9	6244
13N/05E-34R04 M	90.0	10/23/84 04/03/83	28.6 23.4	61.4 66.6	5050	14N/01W-03L02 M		03/37/83	NM=0		5050
13N/06E-30M01 M	107.8	10/23/84 04/03/83	26.4 22.5	79.4 69.3	5030	14N/01W-04K03 M	35.0	10/09/84 03/37/83	5.2 4.0	29.8 31.0	5050
						14N/01W-12A01 M	35.0	10/30/84 03/37/83	11.6(8) 8.4	24.4 29.6	5050
						15N/01W-05G01 M	45.0	10/05/84 03/07/83	9.6 6.6	35.4 39.0	5050
						15N/01W-23A01 M	50.0	11/19/84 04/11/83	12.2 13.7	37.8 36.3	6244
						13N/02W-13M01 M		10/33/84 03/07/83	NM=0 NM=0		5050
						16N/02W-12J02 M	56.0	10/05/84 03/37/83	14.5 10.2	41.3 45.8	5030
						16N/02W-23B02 M	53.0	10/04/84 03/37/83	14.9 12.0	38.1 41.0	5050
						17N/02W-23G02 M	66.0	10/05/84 03/36/83	21.5 16.3	46.5 51.5	5030
						A-07.8 A-07.81	GLENN COLUSA HA COLUSA TROUGH HSA				
						10N/01E-02Q02 M	72.5	10/30/84 03/20/83	41.7 35.9	30.8 30.6	5104
						10N/01E-10G01 M	84.0	10/29/84 03/20/83	59.6 48.5	24.4 35.3	5104
						10N/01E-12B04 M	78.0	10/26/84 11/29/84 12/20/84 01/29/85 02/27/85 03/28/85 04/26/85 05/24/85 06/26/85 07/29/85 08/25/85 09/25/85	46.9 43.7 42.3 41.3 41.7 41.4 62.6 95.8 97.8 44.2 71.8 63.5	31.1 34.3 33.7 36.7 36.3 36.3 15.2 -17.8 -19.8 -7.2 6.2 14.3	5050
						10N/01E-14K01 M	91.0	10/30/84 03/15/83	49.4 47.4	31.2 33.4	5104
						10N/01E-15Q01 M		10/30/84 03/15/83	NM=3 NM=3		5104
						10N/01E-15R01 M	94.0	10/30/84 03/15/83	60.4 54.0	33.6 36.0	5104
						10N/01E-17L01 M		10/25/84 03/15/83	NM=0 NM=0		5104
						10N/02E-01P02 M	30.0	10/29/84 03/20/83	15.5 9.9	14.5 20.1	5104
						10N/02E-C3R02 M	37.0	10/29/84 03/20/83	20.5 14.0	16.3 23.0	5104
						10N/02E-04R01 M	44.0	10/29/84 03/20/83	17.3(8) NM=6	26.3	5104
						10N/02E-06R01 M	65.0	10/29/84	36.1	28.9	5104

TABLE D (CONTINUED)

GROUND WATER LEVELS AT WELLS											
STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND WATER	WATER SURFACE ELEV.	AGENCY	STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY
A A-07 A-07.8 A-07.81	SACRAMENTO NR COLUSA BASIN HU GLENN COLUSA WA COLUSA TROUGH MSA					A A-07 A-07.8 A-07.81	SACRAMENTO NR COLUSA BASIN HU GLENN COLUSA WA COLUSA TROUGH MSA				
10N/02E-06R01 M	65.0	03/20/85	32.8	32.2	5104	11N/02E-17P01 M	42.0	03/14/85	14.9	27.1	5001
10N/02E-06M01 M	72.0	10/29/84 03/20/85	44.5 39.8	27.5 32.2	5104	11N/02E-18N01 M	43.0	10/12/84 03/14/85	29.9 13.5	10.1 26.5	5001
10N/02E-08O02 M	67.0	10/29/84 03/20/85	35.4 32.8	31.6 34.2	5104	11N/02E-20K04 M	50.0	10/26/84 11/29/84 12/20/84 01/29/85 02/27/85 03/26/85 04/26/85 05/29/85 06/25/85 07/29/85 08/26/85 09/25/85	24.4 23.7 23.3 22.4 22.4 22.9 31.4 30.3 39.6 39.8 33.0 30.4	25.6 26.3 26.7 27.1 27.2 27.1 18.6 10.3 10.4 10.2 17.0 19.6	5050
10N/02E-08E01 M	67.0	10/29/84 03/20/85	36.1 29.2	30.5 37.4	5104						
10N/02E-09N01 M	63.0	10/29/84 03/20/85	41.8 30.1	21.2 32.9	5104						
11N/01E-03001 M		10/12/84 03/13/85	NM-9 7.7		5001						
11N/01E-03E01 M	36.0	10/12/84 03/13/85	34.1 11.3	1.9 24.7	5001	11N/02E-29001 M	55.0	10/12/84 03/14/85	23.9 21.8	31.1 33.2	5001
11N/01E-04E02 M	37.0	10/12/84 03/12/85	30.2 NM-4	8.8	5001	11N/02E-29001 M	45.0	10/12/84 03/14/85	23.0 13.0	22.0 32.0	5001
11N/01E-06R02 M	35.0	10/12/84 03/11/85	39.5 14.2	-4.5 20.8	50C1	11N/02E-30P05 M		10/12/84 03/14/85	NM-4 NM-3		5001
11N/01E-07H01 M	42.0	10/12/84 03/14/85	11.4 NM-7	30.6	5001	11N/02E-35E01 M	32.0	04/28/85	10.6	21.4	5050
11N/01E-08K01 M	43.5	10/12/84 03/11/85	39.6 18.0	3.9 25.5	5001	12N/01W-05R01 M	137.9	10/29/84 11/29/84 12/20/84 01/29/85 02/27/85 03/26/85 04/26/85 05/29/85 06/26/85 07/29/85 08/26/85 09/25/85	109.1 107.7 106.3 105.2 104.2 103.5 105.1 104.0 110.0 112.1 111.7 110.3	28.8 30.2 31.6 32.7 33.7 34.4 32.8 29.9 27.9 25.8 26.2 27.8	5050
11N/01E-09F02 M	45.0	10/12/84 03/12/85	29.7 12.8	15.3 32.2	5001						
11N/01E-09P01 M	47.5	10/12/84 03/11/85	15.7 16.9	31.8 30.6	50C1						
11N/01E-14E01 M		10/12/84 03/11/85	NM-4 NM-0		5001						
11N/01E-15C01 M	42.0	10/12/84 03/11/85	32.4 13.4	9.6 28.6	50C1	12N/01W-06J01 M		10/09/84 03/11/85	NM-0 117.0		5001
11N/01E-16P01 M	50.0	10/26/84 11/29/84 12/20/84 01/19/85 02/27/85 03/26/85 04/26/85 05/29/85 06/26/85 07/29/85 08/26/85 09/25/85	36.7 28.1 23.0 21.8 28.0 26.9 76.6 97.9 119.2 (A) 112.0 91.6 58.3	13.3 21.9 25.0 26.2 22.0 23.1 -26.6 -47.9 -89.2 -62.0 -41.6 -8.3	5050	12N/01W-09P02 M	80.0	10/09/84 03/11/85	60.3 55.5	19.7 24.5	5001
11N/01E-16Q01 M	45.0	10/09/84 03/11/85	43.4 21.7	1.8 23.3	5001	12N/01W-14M01 M	43.5	10/09/84 03/11/85	29.3 16.9	14.2 26.6	5001
11N/01E-17F01 M	50.5	10/09/84 03/11/85	25.3 NM-9	25.2	50C1	12N/01W-15K01 M	54.0	10/09/84 03/11/85	34.2 25.3	19.8 28.7	5001
11N/01E-18C01 M	52.0	10/09/84 03/11/85	56.2 30.3	-4.2 21.7	5001	12N/01W-15L01 M	61.0	10/29/84 03/11/85	46.8 36.5	14.2 24.5	5001
11N/01E-18R01 M	57.0	10/09/84 03/11/85	54.1 32.5	-1.1 24.5	5001	12N/01W-22R01 M	51.0	10/29/84 11/29/84 12/20/84 01/29/85 02/27/85 03/26/85 04/26/85 05/29/85 06/26/85 07/29/85 08/26/85 09/25/85	30.0 29.2 28.4 27.7 27.2 26.7 26.0 32.8 31.4 32.1 31.0 29.1	21.0 21.8 22.6 23.3 23.8 24.3 23.0 18.2 19.6 18.9 20.0 21.9	5050
11N/01E-22O01 M	56.0	10/12/84 03/13/85	49.8 25.7	6.2 30.3	5001	12N/01W-26L02 M	50.0	10/29/84 03/11/85	38.1 25.0	11.9 25.0	5001
11N/01E-23C02 M		10/12/84 03/11/85	NM-7 NM-0		50C1	12N/01W-26O01 M	50.0	10/09/84 03/11/85	40.9 26.3	9.1 23.7	5001
11N/01E-23G02 M	92.0	10/12/84 03/11/85	38.5 21.5	13.5 30.5	5001	12N/01W-36K02 M	37.0	10/29/84 03/11/85	37.2 19.2	-2 17.8	5001
11N/01E-23P01 M	56.0	10/12/84 03/13/85	42.0 27.6	14.0 28.4	5001	13N/01W-03M02 M	64.0	10/12/84 03/13/85	35.7 25.4	28.3 38.2	5001
11N/01E-24N01 M	47.0	10/12/84 03/11/85	38.2 18.5	8.8 28.5	5001	13N/01W-05R01 M	41.7	10/12/84 03/13/85	18.3 NM-3	25.4	5001
11N/01E-24R01 M	44.0	10/12/84 03/14/85	25.6 12.4	18.4 31.6	50C1	13N/01W-07G01 M	48.0	10/29/84 03/27/85	65.1 56.8	24.9 31.2	5050
11N/01E-25N01 M	52.0	10/12/84 03/13/85	33.7 20.4	18.3 31.8	5001	13N/01W-08M01 M	75.0	10/12/84 03/13/85	48.6 41.5	26.4 33.5	5001
11N/01E-26O01 M	60.0	10/12/84 03/13/85	45.7 27.0	14.3 33.0	5001	13N/01W-08O02 M		10/12/84 03/13/85	NM-1 NM-1		5001
11N/01E-26M02 M	66.0	10/12/84 03/13/85	25.8 27.6	40.2 34.4	5001	13N/01W-15N03 M	43.0	10/12/84 03/13/85	20.6 12.8	22.4 30.2	5001
11N/01E-27N02 M	63.0	10/09/84 03/11/85	52.7 32.2	10.3 30.8	50C1	13N/01W-16N03 M	55.0	10/12/84 03/13/85	33.7 24.7	22.3 31.3	5001
11N/01E-25J02 M	58.0	10/12/84 03/13/85	35.3 22.9	22.7 35.1	5001	13N/01W-22P02 M	54.0	10/12/84 03/13/85	39.6 29.9	18.4 28.1	5001
11N/01E-26H01 M	60.0	10/12/84 03/14/85	41.4 27.0	18.6 33.0	50C1	13N/01W-23F02 M	40.0	10/12/84 03/13/85	22.8 9.9	17.2 30.1	5001
11N/02E-07P01 M	39.0	10/12/84 03/14/85	19.7 15.0	19.3 24.0	5001	13N/01W-28E02 M	91.0	10/12/84 03/13/85	66.2 59.6	24.8 31.4	5001
11N/02E-17P01 M	42.0	10/12/84	26.6	15.4	5001						

TABLE D (CONTINUED)

GROUND WATER LEVELS AT WELLS											
STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY	STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY
4 A-07 A-07.8 A-07.81	SACRAMENTO NR COLUSA BASIN MU GLENN COLUSA HA COLUSA TROUGH MSA					4 A-07 A-07.8 A-07.81	SACRAMENTO NR COLUSA BASIN MU GLENN COLUSA HA COLUSA TROUGH MSA				
13M/01W-35102 M	65.0	10/09/84 03/07/85	47.3 41.5	17.7 23.5	5050	14M/03W-23401 M	215.0	10/12/84 03/08/85	142.0 143.8	73.0 71.2	5001
13M/01W-36401 M	48.0	10/09/84 03/11/85	32.7 24.5	15.3 23.5	5001	14M/03W-36801 M	275.0	10/11/84 03/05/85	106.5 106.2	168.7 168.8	5001
13M/02W-04601 M	187.0	10/12/84 12/12/84 02/20/85 03/12/85 05/16/85 07/17/85 09/25/85	86.3 80.2 78.3 77.4 81.9 85.6 83.6	100.7 106.8 108.7 104.6 109.1 101.4 105.4	5050 5001 5050 5050 5001	15M/02W-31002 M	97.0	10/09/84 03/07/85	16.7 9.4	74.3 67.6	5050
13M/02W-04603 M	187.0	10/12/84 12/12/84 02/20/85 03/12/85 05/16/85 07/17/85 09/25/85	82.0 75.8 74.1 74.1 75.6 74.8 78.2	105.0 111.2 112.9 112.9 111.4 107.2 108.8	5050 5001 5050 5001	15M/03W-01401 M	70.0	10/05/84 03/08/85	29.0(11) 21.1(11)	41.0 46.9	5050
13M/02W-04604 M	186.6	10/12/84 12/12/84 02/20/85 03/12/85 05/16/85 07/17/85 09/25/85	81.8 58.7 57.1 59.2 57.6 56.7 57.8	124.8 127.9 124.9 126.4 129.0 129.9 126.8	5050 5001	15M/03W-16101 M	118.5	10/10/84 03/08/85	1.9 3.9	114.6 114.6	5050 5001
13M/02W-11101 M	185.0	10/12/84 03/12/85	91.7 97.3	93.3 87.5	5001	15M/03W-33001 M	147.0	10/09/84 03/07/85	30.0 31.4	117.0 115.6	5050
13M/02W-12101 M	133.0	10/09/84 03/12/85	81.5 72.2	51.3 60.8	5001	15M/03W-35601 M	122.0	10/10/84 03/06/85	28.0 27.8	94.0 94.2	5001
13M/02W-13001 M	135.0	10/09/84 03/07/85	104.1 94.0	25.9 41.0	5050	15M/04W-11601 M	141.0	10/05/84 03/08/85	1.8 2.9	137.2 138.1	5050
13M/02W-13001 M	142.0	10/09/84 03/12/85	117.2 90.2	24.8 42.8	5001	16M/01W-07001 M	113.0	10/05/84 03/08/85	7.3 9.8	103.9 103.2	5050
13M/02W-15001 M	247.0	10/12/84 03/12/85	NM-9 95.6	151.4	5001	16M/03W-14402 M	63.0	10/23/84 03/37/85	7.0 4.3	36.0 38.3	5050
13M/02W-15101 M	210.8	10/09/84 03/07/85	122.6 116.3	87.4 93.3	5050	16M/03W-33M02 M	73.0	10/05/84 03/07/85	9.5 3.6	63.5 67.4	5050
13M/02W-20401 M	336.0	10/09/84 03/07/85	111.5(12) 187.3	226.3 150.3	5050	16M/04W-02201 M	160.0	10/05/84 03/08/85	13.8 15.4	146.2 144.6	5050
13M/02W-22401 M	245.0	10/12/84 03/12/85	107.0 110.2	136.0 134.8	5001	17M/02W-30102 M	61.0	10/05/84 03/07/85	3.9 4.1	55.1 56.9	5050
13M/02W-22402 M	250.5	10/12/84 03/12/85	143.2 139.4	111.8 115.6	5001	17M/03W-08801 M	105.0	10/05/84 03/28/85	15.0 16.4	90.0 88.6	5050
13M/02W-23101 M	230.0	10/09/84 03/07/85	116.0 110.8	114.0 119.2	5050	17M/03W-10001 M	94.2	10/05/84 03/37/85	6.7 7.8	87.9 86.4	5050
13M/02W-23101 M	230.0	10/09/84 03/07/85	116.0 110.8	114.0 119.2	5050	17M/03W-12401 M	95.0	10/05/84 03/08/85	4.8 6.9	91.2 91.1	5050
13M/02W-23101 M	230.0	10/09/84 03/07/85	116.0 110.8	114.0 119.2	5050	18M/02W-18401 M	81.0	10/05/84 03/07/85	21.2 9.3	59.8 71.7	5050
13M/02W-23101 M	230.0	10/09/84 03/07/85	116.0 110.8	114.0 119.2	5050	18M/02W-36801 M	73.0	10/05/84 03/37/85	11.4 11.4	61.4 61.6	5050
14M/02W-04802 M	79.0	10/12/84 03/13/85	13.9 12.6	65.1 66.4	5001	18M/03W-10101 M	95.0	10/12/84 03/11/85	3.1 1.6	91.7 91.4	5050
14M/02W-09801 M	78.0	10/12/84 03/13/85	27.3 NM-9	50.7	5001	18M/03W-22001 M		10/10/84	NM-6		5105
14M/02W-13401 M	60.0	10/12/84 03/13/85	28.2 17.8	31.8 42.2	5001	18M/04W-11803 M	151.0	10/10/84 03/07/85	13.4 14.9	137.6 136.1	5105
14M/02W-16402 M	116.0	10/09/84 03/07/85	41.2 36.8	76.8 81.2	5050	18M/04W-12401 M	130.0	10/10/84 03/07/85	5.2 4.1	124.6 123.9	5105
14M/02W-23101 M	89.0	10/12/84 03/13/85	18.2(13) NM-9	50.8	5001	18M/04W-23101 M	151.0	10/10/84 03/07/85	12.6 17.0	138.4 134.0	5105
14M/02W-29101 M	160.0	10/09/84 03/07/85	61.8 63.0	98.2 97.0	5050	19M/02W-09401 M	96.1	10/09/84 03/07/85	3.5 6.4	90.6 89.7	5105
14M/02W-31402 M	283.0	03/08/85	34.1	228.9	5001	19M/02W-13101 M	86.0	10/12/84 03/11/85	12.2 12.0	73.8 74.0	5050
14M/02W-34401 M	159.1	10/12/84 03/08/85	58.3 54.1	100.5 105.0	5001	19M/02W-21001 M	85.0	10/09/84 03/38/85	9.1 9.3	76.9 76.7	5105
14M/02W-36001 M	94.0	10/12/84 03/13/85	67.1(13) 41.6	26.9 32.4	5001	19M/02W-29001 M	93.0	10/09/84 03/38/85	4.5 3.7	85.5 84.3	5105
14M/02W-36402 M	110.5	10/12/84 03/13/85	63.5 56.0	47.0 54.5	5001	19M/02W-34101 M	83.0	10/09/84 03/08/85	5.9 6.0	77.1 77.0	5105
14M/03W-01401 M	122.0 121.0	10/09/84 03/07/85	29.0 29.0	93.0 92.0	5050	19M/02W-36401 M	81.4	10/09/84 03/08/85	8.0 10.2	73.4 71.2	5105
14M/03W-11401 M	136.0	10/09/84 03/07/85	47.1 45.5	89.9 90.3	5050	19M/03W-06402 M	153.7	10/11/84 03/37/85	11.8 8.0	141.9 145.7	5001
14M/03W-11401 M	135.0	10/09/84 03/07/85	53.0 44.7	90.0 90.3	5050	19M/03W-07101 M	147.4	10/11/84 03/37/85	16.3 NM-9	131.1	5001
14M/03W-12102 M	123.0	10/09/84 03/08/85	35.3 33.9	87.7 89.1	5001	19M/03W-07401 M	153.3	10/11/84 03/07/85	14.6 13.9	138.7 139.4	5001
14M/03W-14002 M	171.0	10/09/84 03/07/85	104.2 98.1	66.8 72.9	5050	19M/03W-26101 M	98.0	10/10/84 03/07/85	-0 -0	96.0 98.6	5105
14M/03W-24001 M	176.0	10/10/84 03/08/85	79.9 81.1	90.1 88.9	5001	19M/03W-31401 M		10/10/84 03/07/85	NM-9 NM-9		5105

TABLE D (CONTINUED)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY	STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY
A A-07 A-07.8 A-07.81	SACRAMENTO HB COLUSA BASIN HU GLENN COLUSA HA COLUSA TROUGH HSA					A A-07 A-07.8 A-07.81	SACRAMENTO HB COLUSA BASIN HU GLENN COLUSA HA COLUSA TROUGH HSA				
19N/04W-01A01 M	165.0	10/10/84 03/07/85	17.9 15.8	147.1 149.2	5105	21N/03W-18A02 M	221.6	03/26/85	53.6	166.0	5001
19N/04W-12E01 M	174.0	10/11/84 03/11/85	13.1 11.3	160.9 162.7	5050	21N/03W-20A02 M	205.1	10/11/84 03/26/85	49.4 40.2	160.7 163.9	5001
19N/04W-25B01 M	152.3	10/10/84 03/07/85	5.8 6.9	146.5 145.4	5105	21N/03W-22A01 M	202.0	10/10/84 03/07/85	29.3 28.9	172.7 173.1	5105
20N/01W-07B01 M	115.0	10/09/84 03/08/85	6.0 8.6	109.0 106.4	5105	21N/03W-24A01 M	178.0	10/09/84 03/27/85	16.7 16.9	161.3 161.1	5105
20N/02W-02J01 M	125.0	10/09/84 03/08/85	7.0 7.2	118.0 117.8	5105	21N/03W-31C02 M	199.0	10/11/84 03/07/85	42.9 38.5	156.1 160.5	5001
20N/02W-05A01 M	144.0	10/09/84 03/04/85	9.4 9.0	134.6 135.0	5105	21N/03W-31H01 M	187.0	10/10/84 03/07/85	33.3 29.5	153.7 157.5	5105
20N/02W-11A01 M	123.0	10/12/84 03/11/85	6.0 6.3	117.0 116.3	5050	21N/03W-31R02 M	183.0	10/10/84 12/12/84 02/20/85 03/07/85 03/16/85 07/17/85 09/25/85	27.4 26.0 20.2 23.8 42.1 47.2 29.1	155.6 160.8 162.8 157.2 140.9 135.8 153.9	5050 5001 5050 5001 5001 5001 5001
20N/02W-11A02 M	123.0	10/12/84 03/11/85	9.1 9.1	113.9 113.9	5050	21N/03W-31R03 M	183.0	10/10/84 12/12/84 02/20/85 03/07/85 03/16/85 07/17/85 09/25/85	5.2 4.0 4.9 4.9 4.9 5.3 5.6	177.8 178.0 178.1 178.1 178.1 177.7 177.4	5050 5001 5001 5001 5001 5001 5001
20N/02W-13G01 M	113.0	10/09/84 03/08/85	4.3 5.0	108.7 108.0	5105	21N/03W-31R04 M	183.0	10/10/84 12/12/84 02/20/85 03/07/85 03/16/85 07/17/85 09/25/85	27.6 22.6 20.4 24.6 44.2 39.3 27.0	155.4 160.4 162.6 158.4 128.8 143.7 156.0	5050 5001 5001 5001 5001 5001 5001
20N/02W-27J01 M	102.0	10/09/84 03/08/85	5.6 5.4	96.4 96.6	5105	21N/03W-31R05 M	183.0	10/10/84 12/12/84 02/20/85 03/07/85 03/16/85 07/17/85 09/25/85	26.9 23.7 21.1 25.2 29.8 34.7 26.4	156.1 159.3 161.9 157.8 159.2 148.3 154.6	5050 5001 5001 5001 5001 5001 5001
20N/02W-29G01 M	117.0	10/09/84 03/07/85	5.8 6.3	111.2 110.7	5105	21N/03W-31R06 M	183.0	10/10/84 12/12/84 02/20/85 03/07/85 03/16/85 07/17/85 09/25/85	2.8 2.4 2.4 2.2 2.6 3.1 3.4	180.2 182.6 180.6 180.8 180.8 181.4 179.6	5050 5001 5001 5001 5001 5001 5001
20N/03W-03B02 M	164.0	10/10/84 03/07/85	16.1 12.1	147.9 151.9	5105	21N/03W-32A01 M	184.4	10/11/84 03/07/85	28.1 25.4	156.3 159.0	5001
20N/03W-07A03 M	166.0	10/11/84 03/07/85	18.3 16.0	147.7 150.0	5001	21N/03W-32A02 M	174.0	10/11/84 03/06/85	20.9 18.3	153.1 153.9	5001
20N/03W-12C01 M	159.0	10/10/84 03/07/85	23.0 18.1	134.0 140.9	5105	21N/03W-32A03 M	160.0	10/12/84 03/11/85	15.7 11.2	144.3 148.8	5050
20N/03W-17P01 M	153.0	10/07/84 03/07/85	5.2 4.4	147.8 148.6	5105	21N/04W-23A01 M	259.0	10/11/84 03/06/85	98.3 NM-9	160.5	5001
20N/03W-19B01 M	159.5	10/11/84 03/07/85	5.7 NM-9	153.8	5001	21N/04W-24A02 M	230.0	10/11/84 03/26/85	74.2 69.2	155.8 160.8	5001
20N/03W-19H01 M	156.0	10/11/84 03/07/85	9.2 9.7	148.8 148.3	5001	A-07.82 ORELAND HSA					
20N/03W-19Q01 M	153.0	10/11/84 03/07/85	9.8 10.0	143.2 143.0	5001	21N/02W-02B02 M	161.0	10/09/84 03/24/85	21.8 23.6	139.2 137.4	5105
20N/03W-21A03 M	144.0	10/11/84 03/06/85	9.9 9.1	134.1 134.9	5001	21N/02W-03Q01 M	162.6	10/09/84 03/04/85	16.8 13.0	145.8 149.6	5105
20N/03W-23G02 M	146.0	10/10/84 03/07/85	23.9 17.8	122.1 128.2	5105	21N/02W-15B01 M	161.0	10/09/84 03/04/85	22.6 21.0	136.4 140.0	5105
20N/03W-29P01 M	147.0	10/11/84 03/07/85	13.1 9.8	133.9 137.2	5001	21N/02W-23G01 M	192.0	10/12/84 03/11/85	20.3 (8) 18.3 (8)	131.5 133.7	5050
20N/03W-31A03 M	150.0	10/11/84 03/07/85	12.9 10.1	137.1 139.9	5001	22N/02W-20Q01 M	199.0	10/11/84 03/24/85	4.1 9.3	190.9 189.7	5105
20N/03W-32Q01 M	150.0	10/11/84 03/07/85	24.2 20.5	125.8 129.5	5001	22N/02W-31C01 M	203.0	10/12/84 03/11/85	11.0 7.8	192.0 194.2	5050
20N/03W-33J01 M	136.0	10/11/84 03/06/85	13.6 7.2	122.4 128.8	5001	22N/02W-32M03 M	187.0	10/11/84 03/04/85	11.0 9.8	176.0 177.2	5105
20N/04W-12F02 M	187.0	10/10/84 03/07/85	10.7 12.4	176.3 174.6	5105	22N/02W-36B01 M	154.7	10/11/84 03/08/85	17.1 13.1	146.6 145.6	5105
20N/04W-25J01 M	158.0	10/11/84 03/07/85	13.1 15.3	144.9 142.5	5001	22N/03W-21F02 M	262.0	10/12/84 03/11/85	18.0 21.0	244.0 241.0	5050
21N/02W-07E01 M	190.0	10/09/84 03/04/85	13.0 15.0	177.0 175.0	5105	22N/03W-29B01 M	268.0	10/11/84 03/26/85	17.8 24.3	250.2 243.7	5001
21N/02W-09H02 M	179.0	10/09/84 03/04/85	22.2 20.3	156.8 158.7	5105	22N/03W-30C01 M	285.0	10/12/84 03/11/85	93.4 83.3	191.6 201.7	5050
21N/02W-19H01 M	172.0	10/09/84 03/04/85	13.7 14.9	158.3 157.1	5105	22N/03W-32P01 M	247.2	10/11/84 03/26/85	18.0 23.4	229.2 223.8	5001
21N/02W-20B01 M	166.0	10/11/84 03/04/85	15.4 14.3	150.6 151.7	5105						
21N/02W-31M01 M	161.0	10/09/84 03/07/85	18.5 14.2	142.5 146.4	5105						
21N/03W-02B01 M	219.0	10/09/84 03/04/85	15.7 17.4	203.3 201.6	5105						
21N/03W-09B01 M	220.8	10/11/84 03/06/85	23.8 NM-4	197.0	5001						
21N/03W-11G01 M	200.0	10/09/84 03/04/85	15.0 19.7	185.0 180.3	5105						
21N/03W-12C02 M	202.0	10/09/84 03/04/85	15.1 16.8	186.9 185.2	5105						
21N/03W-19A02 M	221.6	10/11/84	41.5	160.1	5001						

TABLE D (CONTINUED)

GROUND WATER LEVELS AT WELLS											
STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY	STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY
SACRAMENTO MA A-07 A-07.B A-07.C COLUSA BASIN MA GLENN COLUSA MA ORLANDO MA						SACRAMENTO MA A-07 A-07.C COLUSA BASIN MA SUTTER BYPASS MA					
22N/03W-33A02 "	242.0	10/11/84 03/06/85	18.8 22.8	223.2 219.2	5001	16N/02E-26001 "	67.0	11/12/84 04/14/85	13.2 13.9	53.8 53.1	6244
22N/03W-34A01 "	233.0	10/09/84 03/04/85	9.5 12.4	223.5 220.6	9169	16N/03E-07002 "	73.0	11/12/84 04/12/85	7.8 4.1	65.2 6244	
A-07.C SUTTER BYPASS MA						16N/03E-21001 "	64.5	04/14/85	7.7	61.8	6244
13N/03E-02W01 "	42.9	11/13/84 04/10/85	13.8 13.6	29.1 27.3	6244	16N/03E-21002 "	70.0	10/26/84 04/04/85	10.1 9.7	59.9 60.3	5050
13N/03E-04J01 "	38.0	11/13/84 04/10/85	8.2 8.5	29.8 29.5	6244	16N/03E-33J02 "	65.4	11/12/84 04/14/85	18.4 22.4	47.0 43.0	6244
13N/03E-06A01 "	33.7	11/13/84 04/10/85	12.2 8.6	23.5 25.1	6244	17N/02E-14A01 "	82.5	10/35/84 03/05/85	5.0 5.0	77.3 76.9	5050
13N/03E-08B02 "	33.0	11/13/84 04/10/85	5.9 5.5	27.1 27.5	6244	17N/02E-18C01 "	74.0	10/34/84 03/05/85	4.5 5.3	69.5 68.7	5050
13N/03E-13001 "	36.8	11/13/84 04/10/85	14.6 13.1	24.2 25.7	6244	17N/02E-31A01 "	86.0	11/12/84 04/12/85	32.2 31.0	53.8 55.0	6244
13N/03E-14C02 "	36.0	11/13/84 04/10/85	8.4 13.0	27.6 26.0	6244	17N/03E-05C01 "	95.0	10/34/84 03/05/85	12.5 4.0	83.5 5050	
13N/03E-16A01 "	34.6	11/13/84 04/10/85	7.1 8.2	27.5 26.4	6244	17N/03E-08G01 "	90.0	10/31/84 03/05/85	10.7(4) 9.5	79.3 80.5	5050
14N/03E-05C01 "	49.1	11/12/84 04/14/85	18.6 21.9	30.5 27.2	6244	17N/03E-16A01 "	85.0	10/33/84 03/05/85	12.4 13.1	72.6 69.9	5050
14N/03E-14E02 "		04/15/85	44.0		6244	17N/03E-30A01 "	77.8	11/12/84 04/12/85	12.8 12.3	65.0 65.3	6244
14N/03E-17A03 "	46.0	10/26/84 11/28/84 12/21/84 01/29/85 02/27/85 03/27/85 04/26/85 05/29/85 06/26/85 07/29/85 08/26/85 09/26/85	23.6 22.3 21.7 20.6 19.9 20.3 25.3 28.9 15.3 12.6 14.1 29.5	22.4 23.7 24.3 25.4 26.1 25.7 20.7 17.1 15.3 12.6 14.1 16.5	5050	17N/03E-33P01 "	77.0	11/12/84 04/14/85	9.6 7.7	67.4 69.3	6244
A-07.C SUTTER BASIN MA						16N/01E-08C01 "	58.0	11/12/84 04/12/85	8.8 9.2	49.2 46.8	6244
14N/03E-22B02 "	46.6	11/12/84 04/15/85	19.9 18.1	26.7 24.5	6244	17N/01E-10A01 "	63.0	10/34/84 03/05/85	16.1(1) 9.3	46.9 53.7	5050
14N/03E-31B01 "	36.0	04/13/85	8.2	29.8	6244	17N/01E-25J01 "	75.5	11/12/84 04/12/85	31.0 4.0	44.5 6244	
14N/03E-33C01 "	38.6	11/13/84 04/10/85	10.2 9.8	28.4 28.8	6244	17N/01E-33G01 "	65.0	11/12/84 04/12/85	20.3 16.5	47.7 51.5	6244
15N/01E-14F01 "	51.0	11/12/84 04/12/85	21.8 24.7	29.2 26.3	6244	18N/01E-13M01 "	77.0	10/33/84 03/05/85	3.8 7.0	73.2 70.0	5050
15N/02E-22C01 "	46.0	10/26/84 04/04/85	8.5 8.5	37.5 37.5	5050	18N/01E-15002 "	70.0	10/33/84 03/05/85	3.2 3.0	66.8 67.0	5050
15N/02E-24A01 "	51.0	11/14/84 04/12/85	10.2 8.6	40.8 42.4	6244	18N/01E-170C1 "	73.4	10/39/84 03/05/85	6.8 6.1	63.6 64.3	5105
15N/02E-35D01 "	42.5	11/12/84 04/14/85	7.7 6.4	34.8 33.7	6244	18N/02E-16F01 "	80.0	10/33/84 03/05/85	6.4 6.7	73.6 73.3	4050
15N/02E-36A01 "	44.5	11/12/84 04/14/85	7.4 7.5	37.1 37.0	6244	18N/02E-25M01 "	87.0	10/33/84 03/05/85	7.2(9) 7.4	79.8 79.6	5050
15N/03E-05002 "	59.6	11/12/84 04/14/85	12.2 13.3	47.4 44.3	6244	18N/02E-32002 "	75.0	10/33/84 03/05/85	5.0 7.2	70.0 67.8	5050
15N/03E-10G02 "	61.0	11/12/84 04/14/85	18.0 17.4	43.0 43.6	6244	18N/03E-18F01 "	97.5	10/33/84 03/06/85	5.9(8) 5.4(8)	91.6 91.7	5050
15N/03E-15H04 "	59.0	11/12/84 04/14/85	14.5 20.1	39.5 38.9	6244	19N/01E-09B01 "	90.0	10/33/84 03/05/85	3.5 11.0	86.5 79.0	5050
15N/03E-17A02 "	55.0	11/12/84 04/14/85	10.5 18.4	35.5 36.6	6244	19N/01E-27001 "	85.0	10/33/84 03/05/85	4.2 4.7	79.8 80.3	5050
15N/03E-20P01 "	52.7	11/12/84 04/12/85	18.1 15.2	36.6 37.5	6244	19N/01E-28B01 "	80.0	10/33/84 03/05/85	7.2 5.1	72.8 74.9	5050
15N/03E-21J02 "	51.0	10/26/84 11/28/84 12/21/84 01/29/85 02/27/85 03/27/85 04/26/85 05/29/85 06/26/85 07/29/85 08/26/85 09/26/85	14.6 17.7 17.4 15.9 16.9 15.6 14.8(4) 20.3 23.3 24.6 24.7 23.1	32.4 33.3 33.6 34.1 34.1 34.4 31.2 30.7 27.7 26.4 26.3 27.9	5050	19N/02E-17A01 "	102.0	10/33/84 03/05/85	3.7 3.0	96.3 99.0	5050
15N/03E-26A01 "	51.2	11/12/84 04/14/85	11.7 4.1	19.4 19.4	6244	20N/01E-10C02 "	125.0	10/33/84 03/05/85	18.0 10.0	110.0 115.0	5050
15N/03E-33A04 "	48.0	11/12/84 04/14/85	23.3 25.1	24.7 22.9	6244	23N/01E-35C01 "	100.0	10/33/84 03/05/85	4.9 4.0	95.5 96.0	5050
16N/01E-31-01 "	71.0	11/12/84 04/12/85	29.7 28.5	41.3 42.5	6244	20N/02E-05D01 "	135.3	10/33/84 03/05/85	15.1 11.4	120.2 123.9	5050
16N/02E-02C01 "	71.0	11/12/84 04/12/85	4.0 5.6	67.0 65.4	6244	20N/02E-09L01 "	137.0	10/33/84 03/05/85	9.5 4.7(4)	127.5 130.3	5050
						20N/02E-28M01 "	114.0	10/33/84 03/05/85	5.7 5.7	112.3 113.0	5050
						20N/03E-06M01 "	215.0 214.0	10/32/84 03/05/85	75.4 40.0	139.4 134.0	5050
						21N/01E-12-01 "	147.0	10/32/84 03/05/85	4.5 57.5(8)	130.5 131.5	5050
						21N/01E-27D01 "	141.0	13/02/84 03/05/85	28.4 20.6	112.6 120.4	5050

TABLE D (CONTINUED)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY	STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY
A A-07 A-07.0	SACRAMENTO HA COLLISA BASIN NU ROUTE 4451N HA					A A-08 A-08.1	SACRAMENTO HA PARYSVILLE HI LOWER BEAR RIVER HA				
21N/02E-07C01 M	203.0	10/02/84 03/03/85	75.5 95.6	127.5 137.4	5050	13N/04E-01001 M	62.0	11/01/84 03/20/85	51.3 43.0	10.7 19.0	1453
21N/02E-26E02 M	177.0	10/04/84 03/05/85	14.6 14.3	162.4 162.7	5050	13N/04E-13P01 M	69.1	11/11/84 04/30/85	32.4 26.4	36.3 42.7	6244
21N/02E-26F01 M	141.0	10/02/84 03/05/85	42.5 36.6	138.5 144.4	5050	13N/04E-22001 M	50.0	10/24/84 03/14/85	25.5 19.3	24.5 30.7	5415
16N/01W-20F01 M	59.0	10/04/84 03/06/85	22.4 19.0	36.6 40.0	5050	13N/05E-01P01 M	126.0	10/25/84 04/03/85	31.6 32.1	94.2 93.9	5050
17N/01W-06R01 M		10/04/84 03/06/85	NM-1 18.5(8)		5050	13N/05E-03J01 M	95.0	10/23/84 04/03/85	23.6 24.2	69.4 70.8	5050
18N/01W-17G01 M	79.0	10/09/84 03/08/85	17.7 NM-1	61.3	5105	13N/05E-04R02 M	88.0	10/23/84 03/29/85	64.4 33.3	23.6 34.7	5050
18N/01W-22L01 M	70.0	10/09/84 03/08/85	8.2 6.1	61.8 63.9	5105	13N/05E-04C02 M	85.0	10/30/84 11/28/84 12/21/84 01/29/85 02/28/85 03/24/85 04/29/85 05/28/85 06/27/85 07/30/85 08/26/85 09/26/85	43.9 42.3 41.2 41.7(4) 39.8 39.7 NM-1 NM-1 NM-1 NM-1(4) 55.7	41.1 42.7 43.8 43.3 45.2 43.3	5050
18N/01W-32L02 M	75.0	10/04/84 03/05/85	13.9 11.2(8)	61.1 63.8	4050	13N/05E-04J01 M	83.0	11/01/84 03/20/85	28.8 26.4	34.2 36.6	1453
18N/01W-33K01 M	60.0	10/04/84 03/06/85	1.8 2.0	58.2 58.0	5050	13N/05E-06E01 M	52.8	11/01/84 03/20/85	55.4 46.6	7.4 16.2	1453
19N/01W-15001 M	91.0	10/09/84 03/08/85	12.7 11.3	74.3 74.5	5105	13N/05E-08E01 M	78.0	04/09/85	41.8	36.2	6244
19N/01W-27R01 M	81.0	10/09/84 03/08/85	15.7 12.9	65.3 68.1	5105	13N/05E-04R01 M	83.5	11/15/84 04/09/85	27.2 22.3	36.3 61.2	6244
20N/01W-26M01 M	105.2	10/02/84 03/04/85	9.9 10.7	95.3 94.5	5050	13N/05E-17G01 M	74.0	10/24/84 03/14/85	23.4 19.6	50.6 54.4	5415
20N/01W-26M02 M	103.6	10/02/84 03/04/85	8.8 9.7	96.8 95.9	5050	13N/05E-17R01 M	70.0	11/13/84 04/09/85	27.0 22.5	43.0 47.5	6244
21N/01W-04H01 M	135.0	10/09/84 03/08/85	18.6 14.0	116.4 117.0	5105	13N/05E-18C01 M	69.6	10/24/84 03/14/85	34.2 29.0	35.4 40.6	5415
21N/01W-17F01 M	132.3	10/09/84 03/08/85	16.7 17.8	115.8 114.7	5105	13N/05E-21R03 M	80.0	10/24/84 03/14/85	18.3 17.2	61.5 62.8	5415
21N/01W-23J01 M	117.0	10/01/84 03/04/85	11.5 9.8	105.5 107.2	5050	13N/05E-22C03 M	80.0	10/25/84 04/03/85	12.7 11.3	67.3 68.7	5050
						13N/05E-24E02 M	92.0	10/25/84 04/03/85	24.1 15.1	67.9 76.9	5050
						13N/05E-24J01 M	101.3	10/30/84 04/03/85	29.7 24.6	71.6 76.7	5050
						13N/06E-06A01 M	160.0	10/25/84 04/03/85	47.8 45.6	112.2 114.4	5050
						14N/04E-24P01 M	69.0	11/01/84 03/20/85	103.4 90.0	-34.4 -21.0	1453
						14N/04E-36G01 M	64.8	11/31/84 03/20/85	43.3 72.0	-14.5 -3.2	1453
						14N/05E-10902 M	112.0	10/23/84 03/29/85	70.3 59.8	41.7 52.2	5050
						14N/05E-12N01 M	121.0	10/23/84 03/29/85	9.4 9.3	111.4 111.7	5050
						14N/05E-13C01 M	121.0	10/23/84 03/29/85	35.3 23.1	85.7 95.9	5050
						14N/05E-20002 M	86.0	11/01/84 03/20/85	119.1 106.3	-33.1 -20.3	1453
						14N/05E-27L02 M	92.0	11/01/84 03/20/85	90.1 85.6	1.9 6.4	1453
						14N/05E-30001 M	77.2	10/29/84 11/29/84 12/26/84 01/28/85 02/28/85 03/29/85 04/29/85 05/25/85 06/27/85 07/26/85 08/26/85 09/26/85	91.2 88.4 86.0 83.4 42.0 40.6 41.0 40.3 106.4 104.5 104.0 96.2	-14.0 -11.2 -8.8 -6.6 -4.8 -3.4 -13.8 -19.1 -29.3 -31.3 -30.8 -19.0	5050
						14N/05E-32P02 M	74.0	10/23/84 03/29/85	63.4 54.5	10.6 19.5	5050
						14N/05E-34G01 M	108.0	10/23/84 03/29/85	44.2 77.9	23.8 29.1	5050
						A-08.8 OLIVENHIST HA					
						13N/04E-07E01 M	34.7	03/20/85	15.1	23.6	1453

TABLE D (CONTINUED)

GROUND WATER LEVELS AT WELLS											
STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY	STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY
A-08 A-08.0	SACRAMENTO NB MARTYSVILLE HU OLIVEMURST HA					A-08 A-08.0	SACRAMENTO NB MARTYSVILLE HU OLIVEMURST HA				
13N/04E-17P01 M	43.1	11/01/84 03/20/85	17.6 13.9	23.5 27.2	1453	15N/04E-32D01 M	64.0	04/26/85 05/29/85 06/25/85 07/27/85 08/26/85 09/26/85	51.8 54.7 61.3 63.1 61.2 55.4	12.2 9.3 2.7 -0.9 2.8 6.2	5050
14N/03E-12F01 M	52.0	11/02/84 03/20/85	30.2 29.7	21.8 22.3	1453	15N/04E-13P01 M	68.0	11/01/84 03/19/85	43.7 41.1	-15.7 -13.1	1453
14N/03E-24B01 M	48.2	11/02/84 03/20/85	33.3 29.1	14.9 19.1	1453	15N/05E-07K01 M	100.0	10/23/84 04/04/85	61.5 60.0	38.5 44.0	5050
14N/03E-25C02 M	48.0	11/02/84 03/20/85	25.2 22.3	22.8 25.7	1453	15N/05E-29C02 M	91.0	10/23/84 04/04/85	117.0 117.2	-26.0 -26.2	5050
14N/03E-38C02 M	50.0	11/02/84 03/20/85	17.2 24.7	32.0 25.3	1453	15N/05E-29C02 M	91.0	10/23/84 04/04/85	117.0 117.2	-26.0 -26.2	5050
14N/04E-11M01 M	71.5	11/01/84 03/20/85	106.9 101.5	-35.4 -30.0	1453	15N/05E-30B01 M	88.0	10/30/84 11/28/84 12/21/84 01/29/85 02/27/85 03/27/85 04/26/85 05/29/85 06/25/85 07/29/85 08/26/85 09/26/85	119.3 115.9 114.4 113.6 112.0(4) 109.0 112.1 117.0 125.4(4) 124.4 125.2 120.4	-31.1 -27.9 -28.8 -23.6 -24.0 -21.0 -24.1 -29.9 -37.4 -36.4 -37.2 -32.4	5050
14N/04E-13C01 M	73.1	11/01/84 03/20/85	101.8 95.3	-30.7 -22.2	1453						
14N/04E-15C05 M	64.0	10/23/84 03/29/85	76.4 70.9	-12.4 -6.9	5050						
14N/04E-20M01 M	42.0	11/01/84 03/20/85	37.6 32.6	4.2 9.4	1453						
14N/04E-30F01 M	44.0	11/02/84 03/20/85	29.2 26.6	14.8 17.4	1453	A-08.C	LOWER YUBA RIVER HA				
14N/04E-30K01 M	45.0	11/02/84 03/20/85	26.8 25.1	16.2 19.9	1453	15N/04E-04R01 M	85.4	10/31/84 03/19/85	MM-0 31.4	54.0	1453
14N/05E-06R01 M	77.8	11/01/84 03/19/85	111.3 101.4	-33.5 -25.6	1453	15N/04E-10A01 M	90.0	10/23/84 04/04/85	20.2 32.5	60.8 57.5	5050
14N/05E-08R01 M	88.9	11/01/84 03/20/85	MM-3 107.6	-18.7	1453	15N/04E-16P01 M	76.3	10/31/84 03/19/85	41.9 39.5	34.4 36.8	1453
14N/05E-16C02 M	96.0	11/01/84 03/20/85	117.4 106.6	-19.4 -8.6	1453	15N/04E-20E01 M	71.0	10/31/84 03/19/85	29.1 29.3	41.9 41.7	1453
15N/03E-23J01 M	57.0	11/02/84 03/20/85	16.9 18.7	40.1 38.3	1453	15N/05E-06R01 M	105.0	10/23/84	25.1	79.9	5050
15N/04E-11K02 M	63.0	10/23/84 04/04/85	40.0 35.0	45.0 46.0	5050	16N/04E-34A01 M	94.6	10/31/84	16.2	78.4	1453
15N/04E-13A01 M	69.0	10/23/84 04/04/85	64.2 MM-7	24.8	5050	A-08.0	LOWER FEATHER RIVER HA				
15N/04E-15A01 M	78.5	10/31/84 03/19/85	30.2 28.4	48.3 50.1	1453	15N/03E-11C02 M	60.0	10/31/84 03/19/85	24.4 24.2	33.6 33.8	1453
15N/04E-15P01 M	81.0	10/31/84 03/19/85	33.4 49.2	27.6 31.8	1453	15N/04E-07M01 M	69.0	10/31/84 03/19/85	18.5 19.0	50.5 50.0	1453
15N/04E-22P01 M	72.0	10/31/84 03/19/85	61.3 57.9	10.7 14.1	1453	16N/03E-01P02 M	78.0	10/31/84 03/19/85	18.5 14.0	59.5 64.0	1453
15N/04E-23A01 M	83.0	10/31/84 03/19/85	71.5 64.6	11.5 18.4	1453	16N/03E-14B02 M	73.2	10/31/84 03/19/85	16.1 12.9	57.1 60.3	1453
15N/04E-24A01 M	86.3	10/23/84 04/04/85	MM-8 95.0	-8.7	5050	16N/03E-24A01 M	69.0	10/31/84 03/19/85	13.8 10.9	55.2 58.1	1453
15N/04E-24B01 M	85.0	10/23/84 04/04/85	100.6 90.5	-15.6 -3.5	5050	16N/03E-26F01 M	69.6	11/30/84 03/19/85	19.9 17.5	49.7 52.1	1453
15N/04E-24B01 M	85.0	10/23/84 04/04/85	100.6 90.5	-15.6 -3.5	5050	16N/03E-36G01 M	83.9	12/31/84 03/19/85	13.7 11.7	49.4 51.8	1453
15N/04E-24M01 M	80.0	10/23/84 04/04/85	111.6 99.1	-31.6 -19.1	5050	16N/04E-08A01 M	91.0	10/31/84 03/19/85	19.8 19.0	71.2 76.0	1453
15N/04E-24M01 M	79.0	10/30/84 11/28/84 12/21/84 01/29/85 02/27/85 03/27/85 04/26/85 05/29/85 06/25/85 07/29/85 08/26/85 09/26/85	89.0 86.1 84.2 81.2 79.4 78.0 82.7 90.8 94.1 97.9 98.2 94.6	-10.0 -7.1 -5.2 -2.2 -4 -1.0 -3.7 -11.8 -15.1 -18.4 -19.2 -15.6	5050	16N/04E-17R01 M	81.0	10/23/84 04/14/85	9.3 8.5	71.7 72.5	5050
15N/04E-24R02 M	81.0	10/23/84 04/04/85	111.0 99.8	-30.0 -16.8	5050	17N/03E-03D01 M	95.0	10/23/84 33/05/85	24.0 23.0	71.0 72.0	5050
15N/04E-25L02 M	78.0	10/31/84 03/19/85	104.8 100.0	-26.8 -22.3	1453	17N/03E-13M01 M	85.0	10/03/84 03/26/85	24.0 18.3	61.0 66.7	5050
15N/04E-26C01 M	75.0	10/31/84 03/19/85	84.3 78.6	-9.3 -3.6	1453	17N/03E-22R01 M	85.9	10/31/84 03/19/85	25.4 23.7	60.1 61.8	1453
15N/04E-27A01 M	81.0	10/31/84 03/19/85	74.4 70.6	6.6 10.4	1453	17N/03E-26A02 M	84.6	10/31/84 03/19/85	23.9 21.5	62.7 65.1	1453
15N/04E-27J01 M	71.0	10/23/84 04/04/85	74.9 71.5	-3.9 -5	5050	17N/03E-35H02 M	82.0	10/31/84 03/19/85	22.6 19.3	59.4 62.7	1453
15N/04E-28O01 M	77.1	10/31/84 03/19/85	63.7 59.7	13.4 17.4	1453	17N/04E-08A01 M	96.0	10/23/84 03/26/85	19.0 27.5	77.0 84.5	5050
15N/04E-32D01 M	64.0	10/30/84 11/28/84 12/21/84 01/29/85 02/27/85 03/27/85	51.5 46.7 44.0 47.8 47.7 47.3	12.5 14.3 15.0 16.2 16.3 16.7	5050	17N/04E-22R01 M	115.0	10/23/84 03/26/85	17.2 102.3	97.8 102.3	5050
						17N/04E-27F01 M	106.0	10/31/84 03/19/85	24.9 19.9	81.3 86.1	1453
						17N/04E-30R01 M	89.0	10/31/84 03/19/85	19.4 13.9	70.6 75.1	1453
						17N/04E-33O01 M	105.0	10/31/84 03/19/85	27.9 32.8	77.1 82.2	1453
						17N/04E-35O01 M	125.0	10/31/84 03/19/85	34.1 25.6	90.7 99.4	1453

TABLE D (CONTINUED)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY	STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY
A A-08 A-08.0	SACRAMENTO NR MADYVILLE HU LOWER FEATHER RIVER HA					A A-11 A-11.C A-11.C2	SACRAMENTO NR FEATHER RIVER HU MIDDLE FORK FEATHER HA SLOAT HSA				
184/03E-09001 M	110.4	10/03/84 03/06/85	14.5(8) 12.5(8)	95.9 97.9	5050	224/12E-09001 M	4352.0	10/01/84 03/25/85	23.4 5.3	4328.6 4346.7	5050
184/03E-21601 M	104.0	10/03/84 03/06/85	20.5 18.8	83.5 85.2	5050	224/12E-09001 M	4366.0	10/01/84 03/25/85	6.3 4.6	4359.7 4361.4	5050
184/03E-25001 M	125.0	10/04/84 03/06/85	57.4 49.0	67.6 60.0	5050	A-11.C4	SIEPPA VALLEY HSA				
184/04E-09001 M	149.0	10/04/84 03/06/85	46.7(8) 34.8	98.3 110.2	5050	204/14E-04602 M	4942.0	10/01/84 03/25/85	-1.2 -1.1	4943.2 4943.1	5050
184/04E-16001 M	201.0	10/04/84 03/06/85	NM-8 72.0(3)	129.3	5050	204/14E-04606 M	4940.0	10/01/84 03/25/85	7.9 NM-2	4932.1	5050
184/04E-28001 M	135.0	10/04/84 03/06/85	43.7 33.5	91.3 101.5	5050	204/14E-11402 M	4924.8	10/01/84 03/25/85	2.3 1.4	4922.5 4923.4	5050
194/03E-05002 M	140.0	10/03/84 03/06/85	20.4 18.4	119.6 121.6	5050	204/14E-13002 M	4981.6	10/01/84 03/25/85	2.9 .5	4982.7 4985.1	5050
194/03E-21001 M	170.0	10/03/84 03/06/85	49.4 49.3(8)	120.6 121.7	5050	204/14E-14001 M	5035.0	10/01/84 03/25/85	1.9 4.4	5033.1 5030.6	5050
194/04E-32001 M	187.0	10/04/84 03/06/85	56.0 51.5	131.0 135.5	5050	204/15E-07002 M	4937.0	10/01/84 03/25/85	-1.6 -1.7	4937.6 4938.7	5050
						214/14E-10901 M	4988.7	10/01/84 03/25/85	NM-7 -7	4899.4	5050
						214/14E-14001 M	4903.0	10/01/84 03/25/85	-2.0 -2.0	4902.0 4902.0	5050
						214/14E-20403 M	4980.0	10/01/84 03/25/85	1.2 3.9	4954.8 4956.1	5050
						214/14E-21001 M	4914.0	10/01/84 03/25/85	NM-7 -3.0(5)	4917.0	5050
						214/14E-23903 M	4935.0	10/01/84 03/25/85	21.5 18.6	4913.5 4916.4	5050
						214/14E-29101 M	4932.6	10/01/84 03/25/85	8.6 1.2	4924.0 4931.4	5050
						214/14E-32001 M	4975.2	10/01/84 03/25/85	36.3(4) 35.9	4936.9 4939.9	5050
						214/14E-36002 M	4923.0	10/01/84 03/25/85	2.0 1.4	4918.0 4918.6	5050
						214/15E-03102 M	4892.5	10/02/84 03/26/85	40.0 8.6	4852.5 4885.9	5050
						214/15E-04101 M	4888.1	10/02/84 03/25/85	7.5 4.4	4880.3 4883.7	5050
						214/15E-04402 M	4892.0	10/02/84 03/25/85	9.6 4.7	4882.4 4887.3	5050
						214/15E-04001 M	4893.0	10/02/84 03/25/85	6.8 5.1	4886.2 4887.9	5050
						214/15E-05001 M	4884.5	10/02/84 03/25/85	NM-7 -1.5(3)	4886.0	5050
						214/15E-05001 M	4887.0	10/02/84 03/25/85	NM-7 -3.9(5)	4890.9	5050
						214/15E-07001 M	4892.7	10/01/84 03/25/85	-3.0 NM-7	4895.7	5050
						214/15E-09007 M	4910.0	10/01/84 03/25/85	NM-7 -3.0	4913.0	5050
						214/15E-09003 M	4912.0	10/02/84 03/25/85	-1.6 NM-0	4913.6	5050
						214/15E-11001 M	4902.0	10/02/84 04/01/85	26.9 1.8	4875.1 4900.2	5050
						214/15E-12001 M	4915.8	10/01/84 04/01/85	6.4 2.3	4912.4 4916.5	5050
						214/15E-12401 M	4921.5	10/02/84	12.3	4909.2	5050
						214/15E-12402 M	4921.5	04/01/85	2.5	4919.0	5050
						214/15E-14002 M	4915.0	10/02/84 03/26/85	6.3 4.7	4908.7 4909.3	5050
						214/15E-14101 M	5000.0	10/02/84 03/26/85	86.6 76.1	4913.4 4921.9	5050
						214/15E-17401 M	4916.2	10/01/84 03/26/85	-2.8 NM-7	4919.0	5050
						214/15E-18002 M	4891.4	10/01/84 03/26/85	-2.8 NM-7	4894.2	5050
						214/16E-06401 M	4934.8	10/03/84 03/26/85	1.8 1.6	4933.0 4933.2	5050
						214/16E-06403 M	4950.0	10/03/84 03/26/85	47.8 33.9	4902.2 4916.1	5050
						214/16E-07004 M	4961.0	10/03/84 04/01/85	20.0 8.0	4941.0 4953.0	5050
						214/16E-08002 M	4960.0	10/03/84	46.0	4914.0	5050

TABLE D (CONTINUED)

GROUND WATER LEVELS AT WELLS											
STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY	STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY
A A-11 A-11.C4	SACRAMENTO RR FEATHER RIVER HU MIDDLE FORK FEATHER HA SIERRA VALLEY HSA					A A-11 A-11.C4	SACRAMENTO RR FEATHER RIVER HU MIDDLE FORK FEATHER HA SIERRA VALLEY HSA				
21N/16E-08002 M	4960.0	03/26/85	31.3	4928.9	5050	22N/16E-18001 M	4896.9	10/23/84 04/24/85	37.9 2.4	4850.0 4888.5	5050
21N/16E-18001 M	4905.1	10/04/84 03/26/85	23.3 17.2	4973.8 4977.9	5050	22N/16E-18001 M	4900.0	10/23/84 04/24/85	30.8(14) 4.1(8)	4461.2 4893.6	5050
21N/16E-18006 M	4980.0	10/03/84 03/26/85	-4 NM-7	4980.4	5050	22N/16E-19A01 M	4900.0	10/23/84 04/24/85	19.4 9.5	4860.4 4890.5	5050
21N/16E-30J01 M	5120.0	10/03/84 04/01/85	39.4 NM-2	5080.6	5050	22N/16E-19001 M	4912.6	10/23/84 04/04/85	27.5 14.8	4895.1 4897.8	5050
22N/14E-02402 M	4870.5	10/01/84 03/26/85	-2.5 NM-7	4873.0	5050	22N/16E-19001 M	4893.1	10/23/84 04/04/85	27.1 6.2	4866.0 4886.9	5050
22N/14E-31001 M	4914.0	10/01/84 03/25/85	-1.3 NM-7	4915.3	5050	22N/16E-20G02 M	4920.8	10/23/84 04/04/85	5.4 NM-7	4915.4	5050
22N/14E-13K02 M		10/01/84 03/25/85	NM-7 NM-7		5050	22N/16E-20P02 M	4934.6	10/23/84 04/24/85	-1 1	4934.7 4934.5	5050
22N/14E-14F02 M	4900.0	10/01/84 03/25/85	-5.4 -7.4(15)	4905.4 4907.4	5050	22N/16E-30001 M	4915.0	10/23/84 04/24/85	18.2(8) 3.5(8)	4894.8 4906.5	5050
22N/14E-26L01 M	4894.5	10/01/84 03/25/85	-1.7 -1.8	4896.2 4895.3	5050	23N/14E-25G01 M	4891.7	10/23/84 03/25/85	14.7 6.5	4877.0 4885.2	5050
22N/15E-03R01 M	4890.0	10/02/84 03/25/85	21.2 27.5	4868.8 4862.5	5050	23N/14E-25K01 M	4891.1	10/23/84 03/25/85	9.7 3.4	4881.4 4887.7	5050
22N/15E-04N01 M	4878.2	10/02/84 03/25/85	4.0 5.7(11)	4874.2 4872.5	5050	23N/14E-26H02 M		10/23/84 03/26/85	NM-6 NM-0		5050
22N/15E-08001 M	4877.0	10/02/84 03/26/85	4.8 3.9	4872.2 4875.1	5050	23N/14E-35L01 M	4877.5	10/23/84 03/26/85	11.0 6.9	4866.5 4870.6	5050
22N/15E-10C01 M	4890.0	10/02/84 03/25/85	48.9 26.5	4841.1 4853.5	5050	23N/15E-20M01 M		10/23/84 03/25/85	NM-9 NM-7		5050
22N/15E-13M01 M	4893.0	10/02/84 03/25/85	47.6(8) 19.0	4845.4 4874.0	5050	23N/15E-21L01 M	4915.0	10/23/84 03/26/85	NM-9 4.5	4910.5	5050
22N/15E-15001 M	4889.0	10/02/84 04/04/85	4.2 2.3	4884.8 4886.7	5050	23N/15E-25J01 M	4909.0	10/23/84 03/25/85	62.9 29.5	4846.1 4879.5	5050
22N/15E-16L01 M	4881.0	10/02/84 03/25/85	NM-3 16.3	4884.7	5050	23N/15E-26G01 M	4894.0	10/23/84 03/25/85	49.2 16.8	4884.8 4881.2	5050
22N/15E-17H01 M	4880.0	10/02/84 03/25/85	16.7 9.8	4883.3 4870.2	5050	23N/15E-26R01 M	4899.0	10/21/84 03/25/85	53.5 19.5	4845.5 4879.5	5050
22N/15E-22001 M	4889.9	10/02/84 04/04/85	10.2 8.8	4879.7 4872.1	5050	23N/15E-27E01 M		10/23/84 03/25/85	NM-9 4.0	4896.0	5050
22N/15E-26M01 M	4886.2	10/01/84 04/04/85	28.1 1.3	4858.1 4884.9	5050	23N/15E-29M01 M	4895.4	10/23/84 03/25/85	-1.2 NM-7	4897.6	5050
22N/15E-27001 M	4882.0	10/02/84 04/04/85	42.3 5.3	4839.7 4876.7	5050	23N/15E-29M01 M	4883.0	10/23/84 03/25/85	3.0(6) NM-7	4880.0	5050
22N/15E-28L01 M	4881.5	10/02/84 03/25/85	NM-3 13.2	4886.3	5050	23N/15E-34001 M	4884.3	10/23/84 03/25/85	-1 NM-7	4888.4	5050
22N/15E-34G01 M	4880.0	10/02/84 04/04/85	45.5 NM-9	4834.5	5050	23N/15E-35L01 M		10/23/84 03/25/85	NM-9 6.0	4886.0	5050
22N/15E-34L02 M	4890.5	10/02/84 04/01/85	46.0 7.7	4844.5 4882.8	5050	23N/15E-36G01 M	4901.0	10/21/84 03/25/85	55.4 21.6	4845.6 4879.4	5050
22N/15E-34N02 M		10/02/84 04/04/85	NM-5 NM-7		5050	23N/15E-36J01 M	4905.6	10/21/84 03/26/85	3.5 3.8	4902.1 4901.8	5050
22N/15E-35H01 M	4890.7	10/02/84 04/04/85	27.4 NM-7	4861.9	5050	23N/15E-36J02 M		10/23/84 03/25/85	NM-4 NM-0		5050
22N/15E-36H01 M	4900.0	10/03/84 04/04/85	36.6 NM-7	4863.4	5050	23N/16E-19001 M	4924.8	10/21/84 03/26/85	12.8 NM-7	4912.0	5050
22N/15E-36J01 M		10/03/84 04/04/85	NM-4 NM-4		5050	23N/16E-23F01 M	4990.0	10/23/84 03/25/85	14.3 13.4	4975.7 4976.6	5050
22N/15E-36N01 M	4897.0	10/03/84 04/04/85	45.6 NM-7	4851.4	5050	23N/16E-27R01 M	4963.2	10/23/84 03/26/85	7.0 6.5	4956.2 4956.7	5050
22N/15E-36001 M	4908.2	10/03/84 04/04/85	36.2 NM-7	4872.0	5050	23N/16E-28L01 M	4938.5	10/23/84 03/25/85	12.0 NM-7	4926.5	5050
22N/16E-01A02 M	5080.0	10/03/84 03/26/85	31.4 32.3	5048.6 5047.7	5050	23N/16E-29G01 M	4910.0	10/21/84 03/25/85	29.1 3.0	4900.9 4927.0	5050
22N/16E-04A01 M	4932.0	10/04/84 03/25/85	14.7 3.6	4917.3 4924.4	5050	23N/16E-30A01 M		10/21/84 03/26/85	NM-4 NM-0		5050
22N/16E-06R02 M	4908.0	10/03/84 03/25/85	61.5(11) 28.8	4846.5 4879.2	5050	23N/16E-30C01 M	4915.0	10/21/84 03/25/85	11.1 NM-7	4906.9	5050
22N/16E-07G01 M	4906.0	10/03/84 03/25/85	54.7 25.4	4840.3 4880.6	5050	23N/16E-30R01 M	4915.0	10/21/84 03/26/85	70.0 17.3	4845.0 4877.7	5050
22N/16E-08P01 M	4910.0	10/03/84 04/04/85	66.5(11) 15.5(11)	4843.5 4894.5	5050	23N/16E-32001 M	4920.0	10/21/84 03/25/85	72.4 36.8	4847.6 4881.4	5050
22N/16E-17C01 M	4907.0	10/03/84 04/24/85	34.3 9.9	4872.7 4907.1	5050	23N/16E-33C01 M	4934.6	10/21/84 03/26/85	5 -2.0(5)	4934.1 4937.6	5050
22N/16E-17001 M	4910.0	10/04/84 04/04/85	53.8 13.5	4846.2 4896.5	5050	23N/16E-34M01 M		10/21/84 03/26/85	NM-3 NM-0		5050
22N/16E-17E02 M	4901.3	10/03/84 04/04/85	36.3 8.6	4845.0 4892.7	5050	23N/16E-36001 M		10/21/84	NM-4		5050

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY	STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY
A-11 A-11.C A-11.C4	SACRAMENTO HA FEATHER RIVER HU MIDDLE FORK FEATHER HA SIERRA VALLEY HSA					A-13 A-13.4	SACRAMENTO HA TENAYA HU LOWER STONY CREEK HA				
23N/16E-36001 M	5120.0	03/26/85	93.5(3)	5066.5	5050	22N/03W-10001 M	236.2	10/12/84 03/04/85	13.5 19.7	242.7 240.9	5105
23N/16E-36002 M	5010.0	10/01/84 03/26/85	9.8 7.8	5000.2 5002.2	5050	22N/03W-17E01 M	283.0	10/10/84 03/04/85	11.5 13.4	271.5 269.2	5105
23N/16E-36002 M		03/26/85	NM=0		5050	A-13.8	RED BLUFF HA				
23N/17E-30M01 M	5095.0	10/01/84 03/26/85	NM=7 5	5085.5	5050	22N/01E-02R01 M	219.0	10/31/84 03/04/85	65.8 35.3	152.2 152.7	5050
A-11.0 A-11.04	NORTH FORK FEATHER HA MOUNT HARKNESS HSA					22N/01E-09J02 M	179.0	10/01/84 03/04/85	28.9 23.0	149.2 155.0	5050
27N/08E-03E01 M		10/05/84 03/25/85	NM=2 NM=2		5050	22N/01E-20K01 M	165.5	10/32/84 03/04/85	29.0 24.3	136.5 141.2	5050
27N/08E-10G01 M	4515.0	10/05/84 03/25/85	NM=7 0	4515.0	5050	22N/01E-28J01 M	175.0	10/32/84 03/04/85	36.3 30.8	139.7 145.2	5050
27N/08E-10K01 M	4510.0	10/05/84 03/25/85	2.0 3.3	4508.0 4508.7	5050	22N/01E-28J02 M	179.0	10/02/84 03/04/85	19.2 15.3	158.8 160.7	5050
28N/06E-24A01 M	4530.0	10/05/84 03/25/85	29.3 36.0	4500.7 4494.0	5050	22N/01E-28J03 M	176.0	10/32/84 03/04/85	30.6 27.5	149.4 148.5	5050
28N/07E-03M01 M	4520.0	10/04/84 03/25/85	27.0 32.1	4493.0 4487.9	5050	22N/01E-28J05 M	176.0	10/32/84 03/04/85	39.1 29.4	138.9 146.5	5050
28N/07E-05M01 M	4525.0	10/05/84 03/25/85	15.8 21.8	4509.2 4503.2	5050	22N/01E-29R01 M	164.7	10/02/84 03/05/85	19.2 21.7	145.5 143.0	5050
28N/07E-18R02 M	4540.0	10/05/84 03/25/85	44.0 43.9	4496.0 4496.1	5050	22N/02E-17E01 M	281.0	10/31/84 03/04/85	126.7(3) 108.2(3)	154.3 172.8	5050
28N/07E-18R02 M	4540.0	10/05/84 03/25/85	35.2 41.9	4504.8 4498.1	5050	23N/01E-18A01 M	250.0	10/31/84 03/04/85	74.0 69.0	176.0 181.0	5050
28N/08E-21K01 M	4540.0	10/05/84 03/25/85	1.4 7	4538.6 4539.3	5050	23N/01E-29P01 M	203.0	10/01/84 03/04/85	40.1 34.8	162.9 169.2	5050
28N/08E-21K02 M	4540.0	10/05/84 03/25/85	1.7 4	4538.3 4539.2	5050	22N/01W-03M01 M	149.9	10/01/84 03/04/85	21.4 18.5	128.5 131.4	5050
						22N/01W-29K01 M	142.0	10/11/84 03/04/85	16.5 36.7	125.5 105.3	5105
						22N/02W-03004 M	185.0	10/11/84 03/04/85	28.1 19.0	146.9 166.0	5105
						22N/02W-03E01 M	192.0	10/11/84 03/07/85	44.6 36.4	147.4 133.6	5105
						22N/02W-03F01 M	191.0	10/11/84 03/04/85	37.3 26.8	153.7 164.2	5105
						22N/02W-05M01 M		10/11/84 03/04/85	NM=2 NM=2		5105
						22N/02W-06R02 M	205.0	10/12/84 03/11/85	37.0 24.9	168.0 180.1	5050
						22N/02W-09M01 M	207.0	10/11/84 03/07/85	32.7 25.9	174.3 181.1	5105
						22N/02W-09L03 M	195.0	10/11/84 03/04/85	31.1 34.5	163.9 160.5	5105
						22N/02W-11001 M	164.0	10/11/84 03/04/85	25.0 25.1	139.0 138.9	5105
						22N/02W-21001 M	194.0	10/11/84 03/04/85	18.8 18.5	179.2 179.5	5105
						22N/02W-23M01 M	175.0	10/11/84 03/04/85	15.2 17.7	159.8 147.3	5105
						22N/03W-03001 M	268.0	10/10/84 03/04/85	74.1 60.6	193.9 207.4	5105
						22N/03W-04E01 M	283.0	10/11/84 03/06/85	70.8 64.0	212.2 219.0	5001
						22N/03W-05F02 M	295.0	10/11/84 03/06/85	70.3(3) 65.6	224.7 229.4	5001
						22N/03W-06M01 M	301.0	10/10/84 03/04/85	13.9 18.7	287.1 284.3	5105
						22N/03W-12003 M	230.0	10/10/84 03/04/85	32.4 24.2	197.6 205.8	5105
						23N/01W-09E01 M	181.0	03/04/85	24.2	156.8	5050
						23N/01W-14R01 M	189.0	03/04/85	32.9	176.1	5050
						23N/01W-27L01 M	180.0	10/31/84 03/04/85	21.8 15.9	138.2 144.2	5050
						23N/01W-36P01 M	162.0	10/31/84 03/04/85	25.0 19.9	137.0 142.2	5050
						23N/02W-16R01 M	182.5	10/18/84 03/07/85	38.0 35.2	144.5 147.3	5050
						23N/02W-22M02 M	181.0	10/18/84 03/07/85	39.2 31.4	142.8 149.2	5050
						23N/02W-25C01 M	155.0	10/31/84	23.0	132.0	5050

TABLE D (CONTINUED)

GROUND WATER LEVELS AT WELLS													
STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY	STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY		
A-13 A-13.8	SACRAMENTO HB TEHAMA HU REC BLUFF HA					A-13 A-13.8	SACRAMENTO HB TEHAMA HU REC BLUFF HA						
234/02W-29C01	M	155.0	03/04/85	19.6	135.4	050	254/03W-19M01	M	325.0	10/17/84 03/04/85	56.2 48.3	268.8 276.7	050
234/02W-34A01	M	170.0	10/18/84 03/07/85	26.5 24.2	143.5 145.8	050	254/03W-22L01	M	275.0	10/17/84 03/04/85	41.0 35.8	234.0 239.2	050
234/03W-05G01	M	277.0	10/19/84 03/07/85	36.2 30.6	240.8 246.4	050	254/03W-31R01	M	319.0	10/19/84 03/07/85	7.1 6.3	310.9 311.7	050
234/03W-12L01	M	247.0	10/19/84 03/07/85	57.4 47.8	189.6 199.2	050	254/04W-23M01	M	368.0	10/17/84 03/04/85	98.2 92.7	309.8 318.3	050
234/03W-22O01	M	232.0	10/18/84 03/07/85	52.2 42.7	179.8 189.3	050	264/02W-14G01	M	311.7	10/17/84 03/05/85	73.6 77.5	238.1 234.2	050
234/03W-24A02	M	209.0	10/18/84 03/07/85	40.4 28.6	164.6 176.4	050	264/02W-16C01	M	240.0	10/19/84 03/04/85	17.2 44.7	222.8 221.3	050
234/03W-36H02	M	233.0	10/18/84 03/07/85	53.3 46.0	179.7 187.0	050	264/02W-17E01	M	234.0	10/18/84 03/06/85	20.0 16.7	218.0 221.3	050
244/01W-05J01	M	310.0	10/19/84 03/06/85	29.4 33.8	280.6 276.2	050	264/02W-21O01	M	235.0	10/17/84 03/06/85	14.5 10.4	220.5 219.6	050
244/01W-09O02	M	287.0	10/18/84 03/06/85	41.8 43.4	245.2 243.6	050	264/02W-24M01	M	220.0	10/17/84 03/04/85	14.7 14.8	209.3 203.4	050
244/01W-18H01	M	254.0	10/18/84 03/08/85	66.7 62.5	187.3 191.5	050	264/02W-24R01	M	228.0	10/18/84 03/06/85	9.1 8.9	218.9 219.1	050
244/02W-12J01	M	243.0	10/18/84 03/06/85	15.8 16.9	227.2 226.1	050	264/02W-24R02	M	223.0	10/18/84 03/05/85	3.5 .4	224.5 227.6	050
244/02W-20C01	M	234.4	10/19/84 03/07/85	90.5(1) 94.8(1)	183.9 179.6	050	264/03W-04A03	M	299.0	10/18/84 03/04/85	54.2 44.7	226.8 230.3	050
244/02W-23G01	M	197.0	10/18/84 03/06/85	24.7 23.4	172.3 173.6	050	264/03W-08M01	M	307.6	10/17/84 03/04/85	90.1 44.4	257.5 263.2	050
244/02W-29E01	M	216.5	03/07/85	33.1	183.4	050	264/03W-11F01	M	262.0	10/17/84 03/04/85	41.1 39.2	220.9 228.8	050
244/02W-36B01	M	180.0	10/18/84 03/06/85	19.2 18.6	160.8 161.4	050	264/03W-21P01	M	284.5	10/17/84 03/04/85	54.7 46.7	229.8 237.4	050
244/03W-01A01	M	245.0	10/19/84 03/08/85	37.7 33.1	207.3 211.9	050	264/03W-24F01	M	230.0	10/17/84 03/04/85	12.6 15.7	217.4 214.3	050
244/03W-02R01	M	255.0	10/19/84 03/08/85	16.1 11.0	238.9 244.0	050	264/03W-34P01	M	272.9	10/17/84 03/04/85	52.6 42.4	220.3 230.5	050
244/03W-14K01	M	297.0	10/19/84 03/07/85	55.0 49.2	242.0 247.8	050	264/04W-01L01	M	320.0	10/17/84 03/04/85	119.4 103.3	200.2 216.7	050
244/03W-16A01	M	288.5	10/19/84 03/07/85	31.4 27.6	257.1 260.9	050	264/04W-25J01	M	331.0	10/17/84 03/04/85	41.8 34.6	289.2 292.4	050
244/03W-17H01	M	313.0	10/19/84 03/07/85	42.3 37.8	270.7 275.2	050	274/02W-30C02	M	280.0	10/17/84 03/06/85	31.4(1) 29.3	246.6 250.7	050
244/03W-20N01	M	306.0	10/19/84 03/07/85	44.6 40.1	261.4 267.9	050	274/02W-31C01	M	261.0	10/17/84 03/05/85	33.2 31.2	227.8 229.8	050
244/03W-26X01	M	280.0	10/18/84 03/07/85	40.5 40.2	239.5 239.8	050	274/02W-31P01	M	255.0	10/17/84 04/11/85	21.6 19.1	233.4 233.9	050
244/03W-35P04	M	250.0	10/18/84 03/07/85	19.6 17.3	230.4 232.7	050	274/03W-10S01	M	313.0	10/19/84 03/06/85	51.7 50.9	258.3 259.1	050
244/04W-02H01	M	379.2	10/19/84 03/07/85	17.6 16.3	361.6 362.9	050	274/03W-10M01	M	283.0	10/11/84 04/11/85	32.7 24.2	247.3 255.6	050
244/04W-14A02	M	372.5	10/19/84 03/07/85	57.3 60.4	315.2 312.1	050	274/03W-16J01	M	271.4	10/11/84 04/11/85	33.5 27.0	237.9 244.4	050
254/02W-09G01	M	262.0	10/18/84 03/06/85	37.9 36.3	224.5 225.7	050	274/03W-16H02	M	273.0	10/18/84 03/05/85	21.4 20.3	244.6 249.7	050
254/02W-21B01	M	210.0	10/18/84 03/06/85	18.3 12.2	191.7 197.9	050	274/03W-20C01	M	225.3	10/11/84 04/11/85	12.3 16.2	214.0 210.1	050
254/02W-30G01	M	226.0	10/19/84 03/04/85	37.2 38.4	188.8 187.6	050	274/03W-23C01	M	269.0	10/17/84 03/06/85	27.6 20.9	241.4 244.1	050
254/02W-34A01	M	204.0	10/18/84 03/06/85	13.2 15.0	190.8 189.0	050	274/03W-27G01	M	257.4	10/11/84 04/11/85	21.1 14.8	235.3 240.6	050
254/03W-08E01	M	319.0	10/17/84 03/04/85	50.2 40.1	268.8 274.9	050	274/03W-29A01	M	264.5	10/11/84 04/11/85	21.9 20.2	242.6 244.3	050
254/03W-10L01	M	274.0	10/17/84 03/04/85	42.0 38.3	232.0 235.7	050	274/03W-26L01	M	264.4	10/11/84 04/11/85	15.8 15.6	247.6 245.8	050
254/03W-10L03	M	274.0	10/17/84 03/04/85	43.1 39.3	230.9 234.7	050	274/03W-36C01	M	254.0	10/11/84 04/11/85	22.6 20.3	237.4 237.7	050
254/03W-10L04	M	274.0	10/17/84 03/04/85	15.6 15.7	258.4 254.3	050	274/04W-35E01	M	434.0	10/17/84 03/04/85	115.4 108.8	320.9 326.2	050
254/03W-10L05	M	274.0	10/17/84 03/04/85	17.4 15.7	256.2 258.3	050							
254/03W-11F01	M	256.0	10/17/84 03/04/85	32.7(1) 32.6	223.3 223.4	050							
254/03W-13J01	M	230.7	10/19/84 03/04/85	32.2 32.1(1)	194.5 177.9	050							
254/03W-15A01	M	266.5	10/17/84 03/04/85	35.1(1) 33.0(1)	230.4 233.5	050							

TABLE D (CONTINUED)
GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY	STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY
A 4-17 4-17.A	SACRAMENTO RR REDDING HU ENTERPRISE FLAT HA					A 4-17 4-17.R	SACRAMENTO RR REDDING HU LOWER COTTONWOOD HA				
30N/03W-04M01 M	404.5	11/02/84 03/27/85	79.5 84.2	419.0 410.3	5050	29N/05W-26N01 M	499.7	10/25/84 03/27/85	32.6 27.4	467.1 472.0	4050
30N/03W-18F02 M	395.0	10/26/84 03/27/85	10.8 12.9	384.2 382.1	5050						
30N/03W-29X01 M	419.6	10/26/84 10/28/84 03/26/85	36.7 38.7 39.5	340.9 340.9 380.1	5050						
30N/04W-03C01 M	473.3	10/26/84 03/28/85	52.8 52.4	420.5 420.9	5050						
30N/04W-05X01 M	455.0	10/26/84 03/27/85	47.1 45.1	407.9 400.9	5050						
30N/04W-15F03 M	426.0	10/26/84 03/27/85	17.1 16.3	408.9 409.7	5050						
30N/04W-23C01 M	450.0	10/26/84 03/27/85	65.2 N4-3	384.8	5050						
30N/05W-02C01 M	710.0	10/26/84 03/27/85	101.5 102.3	608.5 607.7	5050						
30N/05W-05C01 M	620.0	10/26/84 03/27/85	128.9 126.1	691.9 693.9	5050						
31N/03W-06H01 M	520.5	11/02/84 03/29/85	61.4 60.0	459.1 460.3	5050						
31N/03W-10J01 M	499.5	11/02/84 03/29/85	N4-2 26.3(8)	473.2	5050						
31N/03W-18B01 M	457.6	11/02/84 03/29/85	48.4 49.4	409.2 408.2	5050						
31N/03W-24C01 M	570.0	11/01/84 03/29/85	70.9 67.7	499.1 502.3	5050						
31N/03W-28L01 M	500.0	11/02/84 03/29/85	85.0 86.6	415.0 413.4	5050						
31N/03W-29H01 M	416.4	03/28/85	24.2	392.2	5050						
31N/04W-09D01 M	544.0	11/02/84 03/28/85	104.9 102.0	439.1 442.0	5050						
31N/04W-15X01 M	513.0	11/02/84 03/29/85	111.9 110.4	403.1 404.6	5050						
31N/04W-16H01 M	512.0	11/01/84 03/29/85	102.6 95.7	409.4 416.3	5050						
31N/04W-16M01 M	522.0	11/01/84 11/02/84 03/29/85	99.0 99.0 93.3	423.0 423.0 428.7	5050						
31N/04W-25C01 M	489.0	10/26/84 03/28/85	88.0 86.0	401.0 403.0	5050						
31N/04W-27F01 M	492.0	11/01/84 03/28/85	88.0 81.9	404.0 410.1	5050						
31N/04W-29F02 M	442.0	10/26/84 03/28/85	15.0 22.6(11)	427.0 419.4	5050						
32N/04W-33C01 M	630.0	11/02/84 03/29/85	122.2 120.4	507.8 509.6	5050						
A-17.B	LOWER COTTONWOOD HA										
29N/03W-06F01 M	409.7	10/26/84 03/27/85	33.6 36.4	376.1 373.3	5050						
29N/04W-02F01 M	445.0	10/26/84 03/27/85	38.7 40.8	386.3 384.2	5050						
29N/04W-04R03 M	505.0	10/26/84 03/27/85	61.1 60.8	443.9 444.2	5050						
29N/04W-05C01 M		10/26/84	N4-0		5050						
29N/04W-19E02 M	425.0	10/29/84 03/27/85	33.9(8) 36.7(8)	391.1 388.3	5050						
29N/04W-28D01 M	500.0	10/25/84 03/27/85	97.6 96.0	402.4 404.0	5050						
29N/04W-30L01 M	489.0	10/25/84 03/27/85	52.7 47.4	437.2 442.5	5050						
29N/04W-35H01 M	535.0	10/25/84 03/27/85	82.7 84.1	452.3 450.9	5050						
29N/05W-07H01 M	549.0	10/26/84 03/27/85	45.2 42.2	503.8 506.8	5050						
29N/05W-09L01 M	513.0	10/26/84 03/27/85	27.0 25.0	486.0 490.0	5050						
29N/05W-11H02 M	512.0	10/26/84 03/27/85	52.0 50.2	460.0 461.8	5050						
29N/05W-14L01 M	490.0	10/25/84 03/27/85	34.0 38.6	455.0 459.4	5050						
29N/05W-16H01 M	530.0	10/25/84 03/27/85	36.2(8) 33.2	473.8 479.8	5050						

TABLE D (CONTINUED)
GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY	STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY		
A A-23 A-23.C A-23.C1	SACRAMENTO M8 PIT RIVER HU MCARTHUR H4 BIG LAKE H5A					A A-23 A-23.D A-23.D2	SACRAMENTO M4 PIT RIVER HU BIG VALLEY H4 UPPER ASM CREEK H5A						
37N/04E-08G01	M	3323.6	10/15/84 03/21/85	28.7 26.1	3294.9 3297.5	5050	39N/09E-02P03	M	4286.0	11/01/84 04/18/85	10.7 10.9	4275.3 4275.1	5050
37N/04E-10L01	M	3310.0	10/15/84 03/21/85	29.8 14.3	3280.2 3293.7	5050	39N/09E-13M03	M	4211.0	11/31/84 04/18/85	5.2 4.1	4205.8 4206.9	5050
37N/04E-11A01	M	3310.0	10/15/84 03/21/85	31.2 20.5	3278.8 3289.3	5050	A-23-E A-23.E1	UPPER PIT CANBY H5A					
37N/04E-13R01	M	3310.0	10/15/84 03/21/85	30.7 27.5	3259.3 3282.5	5050	41N/10E-06D01	M	4303.4	10/13/84 03/28/85	6.8 NM-9	4296.6	5050
37N/05E-01J01	M	3322.7	10/15/84 04/17/85	10.5 10.4	3312.2 3312.3	5050	41N/11E-03G02	M	4360.0	10/14/84 03/28/85	4.3 5.1	4354.7 4354.9	5050
37N/05E-02G02	M	3315.5	10/15/84 04/17/85	8.5 4.7	3307.0 3310.8	5050	41N/11E-05L03	M	4320.0	10/14/84 03/28/85	2.7 7.1	4317.3 4312.9	5050
37N/05E-03M01	M	3308.0	10/15/84 04/17/85	3.3 4.0	3304.7 3304.0	5050	42N/09E-23M01	M	4320.0	10/18/84 03/28/85	29.8 NM-9	4290.2	5050
37N/05E-13J01	M	3270.0	10/15/84 04/17/85	10.1 NM-1	3259.9	5050	42N/09E-36A01	M	4290.0	10/15/84 03/28/85	17.5 NM-9	4272.5	5050
37N/05E-21R02	M	3311.0	10/15/84 04/17/85	32.1 31.4	3278.9 3279.6	5050	42N/11E-09P01	M	4405.0	10/14/84 03/28/85	36.0 NM-9	4384.0	5050
37N/05E-23F01	M	3340.0	10/15/84 04/17/85	39.8 37.2	3300.2 3302.8	5050	42N/11E-30C01	M	4345.6	10/18/84 03/28/85	32.0 25.1	4308.6 4315.3	5050
37N/05E-29O01	M	3321.0	10/15/84 04/17/85	80.6 80.0	3240.4 3241.0	5050	42N/11E-30F01	M	4360.0	10/15/84 03/28/85	92.9 NM-9	4267.1	5050
37N/06E-20M01	M	3360.0	10/15/84 04/17/85	22.0 21.7	3338.0 3338.3	5050	A-23.E2	ALTURA H5A					
37N/06E-32R01	M	3320.0	10/15/84 04/17/85	23.8 21.2	3296.2 3298.8	5050	41N/12E-11001	M	4382.6	10/18/84 03/28/85	25.8 23.6	4356.8 4359.0	5050
38N/04E-27O01	M	3317.0	10/15/84 03/21/85	24.9 3.0(8)	3292.5 3314.0	5050	41N/12E-15001	M	4400.0	10/18/84 03/28/85	46.0 NM-9	4354.0	5050
38N/04E-33F01	M	3318.0	10/15/84 03/21/85	10.4 3.5	3307.6 3312.5	5050	42N/12E-02R01	M	4421.0	10/18/84 03/28/85	73.7 67.5	4347.3 4353.5	5050
A-23-D A-23.D1	BIG VALLEY H4 81EBER H5A					42N/12E-11E01	M	4380.0	10/18/84 03/28/85	55.0 NM-9	4325.0	5050	
37N/07E-13A02	M	4124.0	11/01/84 04/18/85	27.9 19.0	4096.1 4105.0	5050	42N/12E-27R01	M	4370.0	10/18/84 03/28/85	14.2 13.1	4355.8 4356.9	5050
37N/08E-06C01	M	4130.0	11/01/84 04/18/85	17.9 10.5	4112.5 4119.5	5050	42N/13E-08P01	M	4394.0	10/18/84 03/28/85	4.2 5.7	4391.8 4392.3	5050
38N/07E-12G01	M	4140.0	11/01/84 04/18/85	8.6 7.8(1)	4131.4 4132.2	5050	42N/13E-06P02	M	4395.0	10/15/84 03/28/85	21.5 NM-9	4373.5	5050
38N/07E-20R06	M	4123.0	11/01/84 04/18/85	18.9 12.9	4104.1 4110.1	5050	42N/13E-16M01	M	4415.0	10/18/84 03/28/85	36.5 30.0	4378.5 4385.0	5050
38N/07E-23E01	M	4120.0	11/01/84 04/18/85	23.0 17.7	4097.0 4102.3	5050	42N/13E-18O01	M	4380.0	10/18/84 03/28/85	11.0 NM-9	4369.0	5050
38N/07E-24J02	M	4135.0	11/01/84 04/18/85	9.0 3.3	4126.0 4131.7	5050	42N/13E-31P02	M	4362.0	10/18/84 03/28/85	7.9 NM-9	4354.1	5050
38N/07E-32A02	M	4115.5	11/01/84 04/18/85	5.5 1.2	4110.0 4114.3	5050	42N/13E-34M01	M	4431.1	10/18/84 03/28/85	14.3 11.3	4416.8 4419.8	5050
38N/08E-03D01	M	4160.0	11/01/84 04/18/85	24.8 18.5	4135.2 4141.5	5050	43N/13E-32D01	M	4438.0	10/15/84 03/28/85	22.3 17.0	4415.7 4421.0	5050
38N/08E-16O01	M	4166.0	11/01/84 04/18/85	29.3 19.5	4138.7 4148.5	5050	44N/14E-06R01	M	4745.0	10/16/84 03/26/85	32.2 NM-9	4712.4	5050
38N/08E-17K01	M	4149.9	11/01/84 04/18/85	10.1 10.1	4139.8 4139.8	5050	44N/14E-07J01	M	4760.0	10/15/84 03/26/85	30.1 28.0	4729.9 4734.0	5050
38N/09E-08F01	M	4250.0	11/01/84 04/18/85	27.1 27.7	4222.9 4222.3	5050	44N/14E-08H02	M	4800.0	10/16/84 03/26/85	71.0 66.5	4729.0 4733.5	5050
38N/09E-18E01	M	4245.0	11/01/84 04/18/85	16.4 16.3	4228.2 4228.7	5050	A-23.E3	JESSE VALLEY H5A					
38N/09E-18M01	M	4285.0	11/01/84 04/18/85	58.6 37.3	4226.4 4227.7	5050	37N/13E-16A02	M	5313.0	11/05/84 03/29/85	14.6 6.9	5298.4 5306.1	5050
39N/07E-01A01	M	4200.0	10/31/84 04/18/85	34.1 22.4	4165.9 4177.6	5050							
39N/07E-22G01	M	4140.0	10/31/84 04/18/85	8.4 8.2	4131.6 4131.8	5050							
39N/07E-26E01	M	4130.0	10/31/84 04/18/85	7.6 5.5	4122.4 4124.5	5050							
39N/08E-18H02	M	4180.0	10/31/84 04/18/85	7.5 26.8	4132.5 4133.2	5050							
39N/08E-21C01	M	4158.0	10/31/84 04/18/85	21.9 13.8	4136.1 4144.2	5050							
39N/09E-28F01	M	4203.2	11/01/84 04/18/85	7.3 5.8	4195.9 4197.4	5050							
39N/09E-32R01	M	4240.0	11/01/84 04/18/85	41.9(1) NM-2	4194.1	5050							

TABLE D (CONTINUED)
GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY	STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY
A A-24 A-24.A	SACRAMENTO NR LAKEVIEW MU DAVIS CREEK MA										
45N/13E-24R01 M	4832.0	10/16/84 03/27/85	9.1 11.0	4822.9 4821.0	5050						
45N/14E-17P01 M	4796.9	10/16/84 03/27/85	61.1 55.4	4735.8 4741.5	5050						
45N/14E-18R01 M	4745.2	10/16/84 03/27/85	31.8 NM-9	4713.4	5050						
45N/14E-19R01 M	4740.0	10/16/84 03/27/85	17.5 NM-0	4722.5	5050						
45N/14E-20R01 M	4803.0	03/27/85	54.5	4748.5	5050						
45N/14E-32G01 M	4820.0	10/16/84 03/27/85	72.3 NM-4	4747.7	5050						
47N/14E-02K03 M	4780.0	10/16/84 03/27/85	25.8 14.6	4754.2 4765.4	5050						
47N/14E-11L02 M	4780.0	10/16/84 03/27/85	12.0 NM-9	4768.0	5050						
48N/14E-24R01 M	4863.0	10/16/84 03/27/85	34.4 20.5	4828.6 4842.5	5050						

TABLE D (CONTINUED)

GROUND WATER LEVELS AT WELLS											
STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY	STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY
8 6-01	54N SAN JOAQUIN	MB DELTA HU				8 6-01	54N SAN JOAQUIN	H8 DELTA HU			
01N/03E-17E01 M		10/09/84	NM-0	5050		01S/03E-15A01 M	23.0	03/14/85	5.3	17.7	5050
01N/05E-03K01 M	11.0	10/15/84 03/12/85	NM-9 22.3	-11.3	5050	01S/04E-32H01 M	21.0	10/11/84 03/12/85	1.9 3.9	19.1 17.1	5110
01N/06E-04J02 M	8.0	10/15/84 03/12/85	19.0 16.4	-11.0 -8.4	5050	01S/05E-31R02 M	4.0	10/11/84 03/12/85	4.4 3.4	-4.4 -6.0	5110
01N/06E-05H01 M	3.0	12/21/84 03/12/85	12.7 12.5	-9.7 -9.5	5050	01S/05E-35002 M	8.0	10/11/84 03/12/85	7.5 7.5	4.5 4.5	5110
01N/06E-05M04 M	4.0	03/14/85	6.0	-6.0	5110	01S/06E-04A02 M	8.5	10/17/84 03/13/85	7.2 5.9	1.3 2.6	5050
01N/05E-08R02 M	5.0	03/14/85	3.5	1.5	5110	01S/06E-15F01 M	10.0	10/17/84 03/13/85	10.0(4) 7.9	0.0 2.1	5050
01N/06E-10R01 M	14.0	10/15/84 03/12/85	29.9 28.6	-15.9 -14.6	5050	01S/06E-22R02 M	13.0	10/17/84 03/18/85	7.2 5.5	2.8 4.5	5050
01N/06E-16M01 M		10/01/84 03/25/85	NM-7 NM-6	5001		01S/06E-23C03 M	13.0	10/17/84 03/13/85	9.3 8.6	3.7 8.4	5050
01N/06E-17A01 M	4.0	10/01/84 03/12/85	NM-7 4.2	-2.2	5050	01S/06E-34K01 M	3.0	03/14/85	4.3	4.7	5050
01N/06E-27R01 M	11.0	10/01/84 12/21/84 03/13/85	NM-7 19.0 19.7	-8.0 -8.7	5050	02S/04E-09A01 M	46.0	10/11/84 03/12/85	6.0 6.0	40.0 38.0	5110
01N/07E-31L01 M	21.0	10/01/84 03/19/85	NM-7 28.6	-7.8	5001	02S/04E-10M02 M	46.0	10/23/84 03/26/85	6.3 2.6	39.7 43.4	5001
02N/06E-17J01 M	11.2	10/15/84 03/12/85	40.7 NM-1	-29.5	5050	02S/04E-19R02 M	62.0	10/23/84 03/26/85	4.2 3.2	57.8 59.8	5001
02N/06E-20F01 M	14.8	10/15/84 03/12/85	25.6 22.4	-10.8 -7.6	5050	02S/04E-16L01 M	98.0	10/23/84 03/26/85	12.7 15.2	86.3 82.8	5001
02N/06E-32G01 M	4.0	12/21/84 01/24/85 02/22/85 03/25/85 04/25/85 05/24/85 06/24/85 07/25/85 08/23/85 09/23/85	14.9 14.4 14.4 14.5 14.6 17.5 18.8 19.2 20.2 18.3	-10.9 -10.4 -10.4 -10.5 -10.6 -13.5 -14.8 -15.2 -16.2 -14.3	5050	02S/05E-08R01 M	4.0	10/11/84 03/12/85	9.7 NM-7	-3.7	5110
02N/06E-34L01 M	15.8	10/15/84 03/12/85	32.9 30.2	-17.1 -14.4	5050	02S/05E-13M01 M	24.0	10/11/84 03/12/85	9.3 13.3	14.7 10.7	5110
03N/05E-03M02 M	2.7	10/24/84 03/13/85	4.2 4.2	-1.5 -1.5	5050	02S/05E-24M01 M	41.0	10/11/84 03/12/85	49.4(8) 33.5(8)	-8.5 7.5	5110
03N/05E-14C01 M	6.7	10/13/84 03/12/85	6.0 5.0	1.7	5110	02S/05E-24M01 M	44.0	10/04/84 04/30/85	61.0 NM-1	-17.0	5001
03N/05E-24L01 M	6.0	12/18/84 03/13/85	10.0 10.4	-2.0 -2.4	5050	02S/05E-25J02 M	47.0	10/24/84 03/27/85	47.0 52.9	4.0 -5.9	5001
04N/05E-01F11 M	16.6	10/03/84 01/08/85	2.8 2.6	13.8 14.0	8201	02S/05E-26001 M	64.0	10/11/84 03/12/85	11.7 11.7	52.3 52.3	5110
04N/05E-02G11 M	17.6	10/03/84 01/08/85	7.5 8.4	10.1 9.0	82C1	02S/05E-28P01 M	72.0	10/11/84 03/12/85	18.5 25.0	53.5 47.0	5110
04N/05E-03002 M	7.8	10/13/84 03/14/85	5.0 3.0	2.8 4.8	5110	02S/05E-31E01 M		10/23/84 03/27/85	NM-7 NM-7		5001
04N/05E-05H01 M	4.0	10/18/84 03/14/85	5.5 4.5	-1.5 -1.5	5110	02S/05E-31M01 M	70.0	10/03/84 03/27/85	9.4 11.9	60.6 98.1	5001
04N/05E-09N01 M	4.0	10/18/84 03/14/85	4.3 2.3	-4.3 -2.3	5110	02S/05E-32A01 M	75.0	10/23/84 03/27/85	18.9 21.2	57.1 54.8	5001
04N/05E-10A01 M	6.3	10/18/84 03/14/85	9.8 10.8	-3.5 -4.5	5110	02S/05E-36A01 M		10/23/84 03/27/85	NM-4 NM-4		5001
04N/05E-11J11 M	15.7	10/03/84 01/08/85	10.5 9.4	5.2 7.3	8201	02S/06E-19M01 M	33.0	10/24/84 03/27/85	13.2 11.4	19.8 21.4	5001
04N/05E-17J02 M	4.6	10/02/84 03/13/85	6.8 6.3	-6.2 -5.7	5050	02S/06E-19M01 M	37.9	10/04/84 03/27/85	52.2 54.4	-14.3 2.5	5001
04N/05E-22A01 M		10/01/84 03/13/85	NM-7 4.1	5001		02S/06E-27E01 M	20.0	10/11/84 03/12/85	7.0 4.0	13.0 16.0	5110
04N/05E-33A04 M	2.0	10/24/84 03/13/85	6.0 5.4	-4.0 -3.4	5050	02S/06E-30M01 M		10/11/84 03/12/85	NM-4 NM-4		5110
04N/05E-35P12 M	10.6	10/03/84 01/08/85	6.8 13.0	3.8 -2.4	82C1	02S/06E-31E01 M	55.0	10/24/84 03/27/85	6.9 7.1	44.1 47.9	5001
05N/05E-22R01 M	12.0	10/10/84 03/04/85	11.4 10.8	1.6 1.2	5001	02S/06E-31J02 M	50.0	10/11/84 03/12/85	5.5 6.0	44.5 44.0	5110
05N/05E-29L03 M	6.0	10/18/84 03/14/85	4.5 4.5	1.5 1.5	5110	02S/06E-31M01 M	64.0	10/11/84 03/12/85	22.0 18.4	42.0 45.9	5110
05N/05E-31A03 M	2.0	10/02/84 03/13/85	5.4 3.6	-3.6 -1.6	5050	02S/06E-32M01 M	55.0	10/13/84 04/30/85	71.5 NM-1	-14.5	5001
05N/05E-32M01 M	1.5	10/14/84 03/14/85	6.2 4.7	-4.7 -3.2	5110	03S/05E-04A01 M	118.0	10/11/84 03/12/85	48.4 40.5	69.5 67.4	5110
01S/03E-03M01 M	30.0	10/09/84 03/18/85	11.4 11.4	18.6 18.6	5050	03S/05E-09R01 M	192.4	10/25/84 03/17/85	74.1 78.4	85.3 81.0	5001
01S/03E-15A01 M	23.0	10/09/84	4.7	18.3	5050						

TABLE D (CONTINUED)
GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY	STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY
B B-01	SAN JOAQUIN NR SAN JOAQUIN DELTA HU					B B-02	SAN JOAQUIN NR NORTH OIARLO RANGE HU				
035/06E-03F02 M	29.0	10/11/84 03/12/85	12.5 6.0	16.5 23.0	3110	025/04E-23M01 M	112.0	10/03/84 03/27/85	11.7 14.3	100.3 97.7	5001
035/06E-03P01 M	36.5	10/04/84 05/01/85	6.6 2.9	29.9 33.6	5001	025/04E-27J01 M	133.6	10/03/84 03/27/85	137.7 126.7	15.9 26.9	5001
035/06E-04A01 M		10/04/84 05/01/85	NM-2 NM-2		5001	025/04E-28A01 M	178.0	10/03/84 03/27/85	NM-1 173.4		5001
035/06E-04D01 M		10/04/84 05/01/85	DRY DRY		5001	025/04E-28H01 M	198.0	10/03/84 03/27/85	116.2 113.6	81.8 84.2	5001
035/06E-05E01 M	59.0	10/11/84 03/21/85	77.0 44.0	-18.0 15.0	5110	025/04E-35D02 M		10/03/84 03/27/85	NM-1 NM-1		5001
035/06E-05R01 M	56.7	10/04/84 05/01/85	69.0 66.9	-12.3 -10.2	5001	025/04E-35P01 M		10/03/84 03/27/85	NM-8 NM-8		5001
035/06E-06M01 M	73.0	10/04/84 03/27/85	7.4 9.0	67.6 66.0	5001	025/04E-36P01 M	180.0	10/03/84 03/27/85	165.0(3) 156.5(3)	15.0 21.5	5001
035/06E-08A01 M	57.0	10/04/84 05/01/85	18.9 18.4	38.1 38.6	5001	025/05E-31M01 M	130.0	10/03/84 03/27/85	140.4 120.3	-10.4 9.7	5001
035/06E-18R01 M	82.1	10/05/84 04/30/85	12.3 11.8	69.8 70.3	5001	035/05E-06A02 M	111.0	10/03/84 03/27/85	48.6 53.9	62.4 57.5	5001
035/06E-19M02 M	99.3	10/05/84 04/30/85	13.2 10.2	86.1 89.1	5001	035/05E-07R01 M		10/03/84 03/27/85	NM-8 NM-7		5001
035/06E-27M01 M	113.0	10/11/84 03/12/85	29.5 33.0	83.5 80.0	5110	035/05E-08D02 M	177.0	10/03/84 03/27/85	109.9 112.9	67.1 64.1	5001
035/06E-28F03 M	116.4	10/04/84 05/01/85	23.3 NM-2	91.1	5001	035/05E-15M01 M	142.9	10/05/84 03/27/85	42.0 55.2	100.9 87.7	5001
035/06E-28M01 M	144.8	10/04/84 05/01/85	81.0 62.3	83.8 82.5	5001	035/05E-17R01 M	212.0	10/03/84 03/27/85	241.4 NM-3	-29.4	5001
035/06E-30D01 M	157.4	10/05/84 04/30/85	66.3 64.6	91.1 92.8	5001	035/05E-23R01 M	124.0	10/05/84 03/27/85	34.3 36.3	89.7 87.7	5001
035/07E-06D01 M	26.0	10/17/84 03/14/85	6.6 9.3(4)	19.4 16.7	5050	035/05E-25D01 M	207.0	10/05/84 04/30/85	111.6 114.5(6)	95.4 92.5	5001
						035/05E-26M01 M	212.1	10/05/84 03/27/85	120.2 116.8	91.9 95.3	5001
						035/05E-26M01 M	242.0	10/05/84 03/27/85	177.7 183.1	64.3 58.9	5001
						035/06E-32E01 M	205.0	10/05/84 05/31/85	113.6 93.8	88.4 106.2	5001
						035/06E-32G01 M	177.0	10/05/84 05/01/85	96.6 133.3	80.4 43.7	5001

TABLE D (CONTINUED)

GROUND WATER LEVELS AT WELLS											
STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY	STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY
8 8-03 8-03.4 8-03.41	SAN JOAQUIN HB NORTH VALLEY FLOOR HU LOWER COSUMNES-DRY MA LOWER DEER CREEK HSA					8 8-03 8-03.4 8-03.42	SAN JOAQUIN HB NORTH VALLEY FLOOR HU LOWER COSUMNES-DRY MA HERALO HSA				
044/07E-36F01 "	310.0	10/12/84 03/08/85	132.4 132.2	177.6 177.8	5050	054/08E-26F01 "	50.0	10/29/84 11/27/84 12/18/84 03/25/85 02/22/85 03/25/85 04/29/85 05/24/85 06/25/85 07/25/85 08/22/85 09/24/85	73.6 71.4 70.7 69.5 68.7 69.0 68.4 70.1 69.0 102.0 66.1 66.2	-23.6 -21.8 -20.7 -19.5 -14.7 -18.0 -18.4 -29.1 -35.0 -52.0 -38.1 -45.2	5050
8-03.42	HERALO HSA										
044/07E-01811 "	109.1	10/15/84 01/16/85	126.5 118.4	-21.4 -13.3	#201	054/06E-29C01 "	24.0	10/15/84 03/15/85	66.7 53.6	-34.7 -25.6	4202
044/07E-02801 "	103.6	10/15/84 01/16/85	126.1 115.9	-22.5 -12.0	#201	054/06E-29H01 "	32.8	10/10/84 03/04/85	70.8 59.1	-38.2 -26.5	5001
044/07E-03801 "	93.2	10/17/84 03/05/85	121.2 108.4	-28.0 -13.2	5001	054/06E-29H01 "	32.8	10/10/84 03/04/85	70.8 59.1	-38.2 -26.5	5001
044/07E-12E01 "	105.7	10/18/84 03/12/85	125.2 126.7	-19.5 -21.0	5110	054/06E-31E01 "	24.0	10/10/84 03/15/85	51.3 37.6	-27.3 -13.6	5001
044/07E-12E12 "		10/15/84 01/16/85	44-9 44-9		#201	054/06E-31E03 "	23.0	10/10/84 03/04/85	33.3 25.3	-13.3 -5.3	5001
044/08E-02E11 "	159.6	10/23/84 11/16/84 12/21/84 01/22/85 02/19/85 03/11/85 04/10/85 05/14/85 06/11/85 07/19/85 08/13/85 09/25/85	143.6 143.0 139.4 139.2 134.9 140.8 138.5 139.2 139.7 140.5 141.4 141.6	12.0 12.0 16.2 16.4 18.9 14.8 17.1 16.4 15.9 15.1 14.2 14.0	#201	054/06E-31H01 "	34.5	10/10/84 03/24/85	55.6 45.0	-17.1 -11.4	5001
044/08E-03F11 "	149.9	10/23/84 11/16/84 12/21/84 01/22/85 02/21/85 03/07/85 04/10/85 05/20/85 06/11/85 07/17/85 08/13/85 09/25/85	146.7 145.4 144.8 144.3 144.4 144.0 143.4 143.8 147.7 144-1 145.7 145.6	3.2 4.5 5.1 5.4 5.5 5.9 6.5 6.1 2.2 4.2 4.3	#201	054/06E-33J01 "	41.0	10/19/84 03/15/85	62.0 47.7	-21.0 -6.7	4202
044/08E-04P14 "	137.0	10/22/84 01/22/85	142.2 138.9	-5.2 -11.9	#201	054/06E-33H02 "	53.0	10/10/84 03/24/85	40.7 33.2	3.3 19.6	5001
044/08E-06C02 "	105.0	10/18/84 01/25/85 02/26/85 03/25/85 04/25/85 05/24/85 06/24/85 07/26/85 08/23/85 09/24/85	125.9 117.4 115.2 114.2 113.2 110.9 123.2 126.7 127.4 126.1	-20.4 -12.4 -10.2 -9.2 -10.2 -14.9 -14.2 -21.7 -22.4 -21.1	5050	054/07E-06A01 "	85.0	03/22/85	97.2	-32.2	5050
044/08E-06H02 "	116.0	10/15/84 03/12/85	44-1 132.0(4)	-19.0	5110	054/07E-07E02 "	60.0	10/17/84 03/25/85	117.2 109.8	-57.2 -49.8	5001
054/05E-01002 "	25.0	10/10/84 03/04/85	62.8 34.1	-37.8 -29.1	5001	054/07E-08Q01 "	75.0	03/11/85	105.3	-30.3	5050
054/05E-11802 "	21.8	10/10/84 03/04/85	44-1 38.8	-17.0	5001	054/07E-10001 "	75.0	10/12/84 03/11/85	114.4 103.4	-39.4 -28.4	5050
054/05E-11401 "	17.9	10/10/84 03/04/85	28.6 23.0	-10.7 -9.7	5001	054/07E-12E02 "	127.0	10/16/84 03/26/85	159.4 154.4	-32.4 -27.4	5001
054/05E-12403 "	14.0	03/15/85	20.8	-6.8	5050	054/07E-16A01 "	81.0	10/12/84 03/15/85	123.4 109.8	-42.4 -28.8	5050
054/06E-02C01 "	50.0	10/13/84 03/15/85	98.8 75.6	-48.8 -25.6	4202	054/07E-19401 "	85.0	10/12/84 03/15/85	101.1 88.6	-36.1 -23.6	5050
054/05E-04R02 "	40.6	03/15/85 09/18/85	65.1 76.2	-25.1 -36.2	5050	054/07E-20G01 "	76.7	10/17/84 03/25/85	121.9 107.9	-45.2 -30.8	5001
054/05E-08R01 "	35.0	03/15/85	62.2	-27.2	5050	054/07E-23C01 "	97.0	10/16/84 03/26/85	130.7 116.2	-33.7 -19.2	5001
054/05E-10A03 "	47.3	03/11/85	50.1	-32.5	5050	054/07E-23H01 "	100.0	03/15/85	119.4	-19.4	5050
054/05E-10P01 "	41.3	10/04/84 03/04/85 09/18/85	91.3 85.4 91.0	-50.0 -44.1 -49.7	5050	054/07E-25J01 "	91.0	10/17/84 03/25/85	44-3 103.3(3)		5001
054/06E-12R01 "	84.0	10/17/84 03/05/85	108.9 97.2	-44.9 -33.2	5001	054/07E-28A01 "	85.0	03/15/85	105.7	-19.7	5050
054/05E-13R01 "	63.5	10/17/84 03/05/85	113.4 92.4	-49.9 -35.9	5001	054/07E-29A01 "	71.0	10/17/84 03/25/85	96.7 86.9	-25.7 -15.9	5001
054/06E-14C01 "	52.0	10/15/84 03/15/85	101.7 90.8	-49.7 -37.9	4202	054/07E-29A02 "	71.0	10/17/84 03/25/85	104.2(4) 93.2	-33.2 -22.2	5001
054/06E-15R02 "	41.0	10/17/84 03/05/85	86.9 83.6	-45.9 -42.6	5001	054/07E-30A01 "	73.0	10/19/84 03/19/85	117.0 90.6	-44.0 -26.8	4202
054/05E-17J01 "	32.5	10/10/84 03/04/85	78.7 67.3	-46.2 -34.8	5001	054/07E-34A01 "	89.8	10/19/84 03/12/85	124.9(8) 118.0(6)	-35.1 -30.1	5110
054/06E-19R01 "	20.0	10/10/84 03/04/85	37.9 44-1	-17.9	5001	054/08E-08A01 "	173.0	10/16/84 03/26/85	192.1 175.5	-9.1 -6.3	5001
054/06E-20R01 "	51.3	10/04/84 03/04/85 09/18/85	89.4 77.4 92.0	-38.1 -26.1 -40.7	5050	054/08E-24C11 "	257.2	10/23/84 11/15/84 12/11/84 01/22/85 02/19/85 03/11/85 04/13/85 05/14/85 06/14/85 07/17/85 08/13/85 09/16/85	190.9 191.0 190.1 190.9 190.9 191.1 191.4 191.4 191.4 191.4 191.4 191.4	66.3 66.2 67.1 66.3 66.3 66.3 66.3 66.3 66.3 66.3 66.3 66.3	#201

TABLE D (CONTINUED)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY	STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY
R B-03 B-03.4 B-03.42	SAN JOAQUIN M8 NORTH VALLEY FLOOD MU LOWER COSUMES-DRY M4 HERALD M5A					R B-03 B-03.4 B-03.42	SAN JOAQUIN M8 NORTH VALLEY FLOOD MU LOWER COSUMES-DRY M4 HERALD M5A				
05N/08E-26401 M	208.9	10/23/84 11/10/84 12/11/84 01/22/85 02/19/85 03/11/85 04/10/85 05/14/85 06/14/85 07/17/85 08/13/85 09/16/85	177.4 177.5 177.4 176.2 176.3 177.4 177.9 177.9 176.4 176.2 174.4 176.4	31.5 31.4 31.5 30.7 32.6 31.1 31.0 30.5 30.7 30.5 30.5	P201	06N/06E-23C01 M	52.0	03/13/85	69.1	-17.1	4202
						06N/06E-25001 M	60.0	10/17/84 03/26/85	97.3 98.6(1)	-37.3	5001
						05N/08E-28C02 M	40.0	03/22/85	46.9(4)	-6.9	5050
						06N/06E-29401 M	33.0	03/22/85	39.3	-6.3	4050
						06N/06E-33J02 M	45.6	10/29/84 11/27/84 12/18/84 01/25/85 02/22/85	61.8 61.1 60.7 60.3 59.9	-16.0 -15.3 -14.9 -14.5 -14.1	5050
05N/08E-27R12 M	164.5	10/23/84 11/15/84 12/07/84 01/22/85 02/21/85 03/07/85 04/10/85 05/20/85 06/11/85 07/17/85 08/13/85 09/25/85	160.8 162.0 170.6 159.9 162.6 169.3 170.7 161.9 163.9 164.3 160.6 160.6	3.7 2.5 -6.3 -4.6 1.9 -4.6 -6.2 2.6 -6 -2 3.9 3.9	R201	06N/06E-33L01 M	35.6	10/04/84 03/24/85 09/16/85	94.4 96.4 97.4	-18.6 -12.8 -12.6	5050
05N/08E-31R01 M	137.0	10/14/84 03/12/85	153.3(8) 147.3(8)	-16.3 -10.3	5110	06N/06E-33002 M	35.7	10/17/84 03/26/85	61.2 62.4	-25.5 -16.7	5001
05N/08E-32R11 M	162.1	10/23/84 01/22/85	175.0 169.6	-12.9 -7.7	62C1	06N/06E-34P01 M	46.0	10/17/84 03/25/85	76.6 70.6	-30.6 -24.6	5001
05N/08E-34C11 M	224.4	10/23/84 11/15/84 12/07/84 01/22/85 02/21/85 03/07/85 04/16/85 05/20/85 06/11/85 07/19/85 08/13/85 09/25/85	221.7 M-1 224.6 220.4 220.3 226.2 M-1 220.1 220.2 220.4 222.4 M-1	2.7 -2 4.0 4.1 -1.6 4.3 4.2 4.0 1.6	8201	06N/07E-04J01 M	115.0	10/17/84 03/27/85	124.0 117.6	-9.0 -2.6	5001
						06N/07E-08R01 M	105.0	03/22/85	123.7	-18.7	
						06N/07E-11402 M	116.9	10/12/84 03/07/85	133.9 130.5	-17.9 -22.5	5001
						06N/07E-14401 M	110.0	10/12/84 03/07/85	131.5 126.0	-21.5 -16.0	5001
						06N/07E-15K01 M	107.0	10/18/84 03/22/85	138.6 133.2	-31.6 -26.2	5001
05N/08E-34011 M	213.8	10/23/84 01/22/85	213.3 211.2	.5 2.6	8201	06N/07E-19401 M	71.0	03/22/85	96.4	-25.4	5050
05N/08E-35X12 M	188.6	10/23/84 11/15/84 12/11/84 01/22/85 02/21/85 03/07/85 04/16/85 05/20/85 06/11/85 07/17/85 08/12/85 09/25/85	163.0 162.9 162.9 163.0 M-1 163.2 162.8 163.0 163.1 163.2 163.2	25.6 25.7 25.7 25.6 25.4 25.8 25.8 25.6 25.5 25.4 25.4	8201	06N/07E-26E01 M	74.5	10/17/84 10/28/84 11/27/84 12/18/84 01/25/85 02/26/85 03/06/85 03/25/85 04/29/85 05/28/85 06/25/85 07/26/85 08/22/85 09/24/85	112.2 111.7 108.2 107.1 104.9 103.2 101.4 102.4 103.7 110.0 114.6 118.2 118.1 115.2	-37.7 -6.7 -3.2 -2.1 -1 1.8 -26.9 2.6 1.3 -5.0 -9.6 -13.2 -13.1 -10.2	5001
05N/08E-20F01 M		10/23/84 01/23/85 04/10/85 07/19/85	DRY DRY DRY DRY		6201	06N/07E-32P01 M	69.0	03/22/85	99.3	-30.3	5050
05N/08E-30C11 M	249.2	10/23/84 11/16/84 12/11/84 01/23/85 02/19/85 03/11/85 04/10/85 05/06/85 06/14/85 07/19/85 08/12/85 09/16/85	88.3 88.5 88.3 87.2 87.2 87.2 87.1 M-1 87.2 87.2 M-1 M-1	160.9 160.7 160.9 162.0 162.0 162.0 162.1 162.0 162.0	8201	06N/07E-34401 M	86.0	03/11/85	111.0	-25.0	5050
						06N/08E-15J01 M	214.0	10/16/84	136.3	77.7	5108
						06N/08E-21P03 M	160.0	03/11/85	151.7	8.3	5050
						06N/08E-30R01 M	134.3	03/11/85	142.8	-8.5	5050
						06N/08E-31E02 M	193.0	10/12/84 03/11/85	190.4 196.8	-6.6 -3.8	5050
						06N/08E-34E01 M	256.0	10/12/84 03/11/85	205.5 204.7	50.5 51.3	5050
05N/07E-30M11 M	249.7	10/23/84 11/16/84 12/11/84 01/23/85 02/19/85 03/11/85 04/10/85 05/06/85 06/14/85 07/19/85 08/12/85 09/16/85	98.3 98.4 98.4 98.4 96.2 96.2 96.1 96.1 96.2 96.3 96.2 96.0	147.4 147.3 149.3 149.3 149.5 149.5 149.7 149.7 149.7 149.4 149.4 149.7	R2C1	07N/06E-23P01 M	77.0	10/29/84 11/27/84 12/18/84 01/25/85 02/26/85 03/25/85 04/29/85 05/28/85 06/25/85 07/26/85 08/22/85 09/24/85	89.0 87.9 87.4 96.7 96.2 96.1 96.7 96.4 91.7 94.8 91.3 93.0	-12.0 -10.9 -10.4 -9.7 -9.2 -9.1 -9.7 -12.4 -14.7 -17.8 -18.2 -16.0	5050
06N/06E-01G01 M	76.5	10/17/84 03/06/85	79.2 73.8	-2.7 2.7	50C1	07N/06E-25R01 M	84.0	10/18/84 03/26/85	82.6 76.0	1.2 6.0	5001
06N/06E-11J03 M	65.0	10/17/84 03/06/85	75.4 66.0	-10.6 -3.0	5001	07N/06E-26001 M	70.0	03/21/85	90.5	10.5	5108
06N/06E-13J01 M	65.0	10/17/84 03/06/85	89.6 80.6	-24.6 -15.6	5001	07N/06E-36P02 M	75.0	10/17/84 03/25/85	64.5 64.7	10.5 10.3	5001
06N/06E-16E01 M	50.5	10/10/84 03/05/85	50.8 47.4(1)	-3 2.7	5001	07N/07E-02C01 M	102.5	10/12/84 03/27/85	47.2 43.0	55.3 59.5	5001
06N/06E-22C01 M	50.0	03/22/85	50.1	-1	5050	07N/07E-03R01 M	100.0	10/15/84 03/07/85	96.6 96.9	51.4 53.1	4001
06N/06E-23C01 M	52.0	10/15/84 10/17/84 03/06/85	72.5 72.5 69.0	-20.5 -20.5 -17.0	4202 5001	07N/07E-04J01 M	133.5	10/12/84 03/27/85	91.1 87.9	42.4 45.6	5001

TABLE D (CONTINUED)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY	STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY
8 8-03 8-03.4 8-03.42	SAN JOAQUIN HB NORTH VALLEY FLOOR HU LOWER COSUMES-DRY HA HERALD H54					8 8-03 8-03.8	SAN JOAQUIN HB NORTH VALLEY FLOOR HJ LOWER MODELUMME H4				
07N/07E-04P01 M	174.1	10/12/84 03/07/85	139.5 135.0	34.6 39.1	50C1	02N/06E-11L01 M	24.0	08/23/55 09/23/55	60.7 54.7	-36.7 -34.7	50S0
07N/07E-07H02 M	100.3	10/17/84 03/07/85	96.4 89.8	4.1 10.7	50C1	02N/06E-12H01 M	31.8	10/15/84 03/12/85	44.8 51.7	-23.0 -19.9	50S0
07N/07E-10K01 M		10/16/84 03/07/85	NM-9 NM-9		5001	02N/06E-12J11 M		10/33/84 01/11/85	DRY DRY		#201
07N/07E-17G02 M	101.5	10/17/84 03/07/85	86.2 79.0	15.3 22.5	50C1	02N/06E-13C14 M	29.2	10/30/84 01/11/85	50.4 53.3	-21.6 -24.1	8201
07N/07E-20C01 M	81.0	10/17/84 03/07/85	62.5 NM-9	18.5	5001	02N/06E-13K12 M	30.2	10/09/84 01/11/85	49.1 49.8	-18.9 -19.6	8201
07N/07E-21E01 M	85.0	10/17/84 03/07/85	67.1 NM-9	17.9	50C1	02N/06E-13M01 M	26.7	10/22/84 03/25/85	53.3 (8) 49.5 (6)	-26.8 -22.5	5110
07N/07E-22E01 M	109.8	10/18/84 03/07/85	97.4 92.3	12.2 17.3	5001	02N/06E-13F02 M	30.0	10/22/84 03/25/85	55.0 (8) 51.0 (8)	-25.0 -21.0	5110
07N/07E-24F01 M	125.0	10/12/84 03/07/85	102.5 99.7	22.3 25.3	5001	02N/06E-13F01 M	18.0	10/15/84 03/12/85	59.5 47.6	-41.5 -29.6	50S0
07N/07E-27B01 M	107.0	10/12/84 03/07/85	105.3 99.5	1.7 7.5	5001	02N/06E-22001 M	17.2	10/15/84 03/12/85	50.7 42.9	-33.5 -23.7	50S0
07N/07E-27P01 M	100.0	10/12/84 03/07/85	100.0 93.9	.0 6.1	5001	02N/06E-24H12 M	28.8	10/33/84 01/11/85	46.3 45.9	-19.9 -14.3	8201
07N/07E-29A01 M	97.0	10/12/84 03/07/85	87.4 80.7	9.6 16.3	5001	02N/06E-24J02 M	30.1	10/22/84 03/25/85	56.4 (8) 53.4 (8)	-26.3 -23.3	5110
07N/07E-31F01 M	83.1	10/12/84 03/08/85	83.2 78.3	1.9 5.8	5001	02N/06E-24J03 M	25.8	10/15/84 03/12/85	46.5 45.8	-19.7 -16.0	50S0
07N/07E-32A02 M	81.0	10/13/84 03/15/85	87.8 78.5	-6.8 2.5	4202	02N/06E-26M01 M	22.8	10/18/84 03/25/85	54.8 51.8	-32.0 -26.0	5110
07N/07E-34D01 M	97.4	10/12/84 03/07/85	98.7 92.7	-1.3 4.7	50C1	02N/07E-02A12 M	66.4	10/18/84 01/14/85	65.7 67.7	-23.3 -21.3	8201
07N/07E-33G01 M	170.0	10/12/84 03/07/85	165.6 169.8	4.4 .2	50C1	02N/07E-04H12 M	52.7	10/09/84 01/11/85	77.0 71.5	-24.3 -16.8	#201
07N/08E-02L01 M	198.0	10/16/84 03/25/85	10.3 7.3	187.7 190.7	5108	02N/07E-07R03 M	37.0	10/24/84 03/25/85	60.5 59.5	-23.5 -22.5	5110
07N/08E-06M01 M	117.5	10/12/84 03/07/85	33.3 NM-9	84.2	50C1	02N/07E-08D01 M	42.0	10/22/84 03/25/85	75.2 (8) 74.2 (8)	-34.2 -32.2	5110
07N/08E-13A01 M	280.0	10/18/84 03/25/85	32.4 18.6	227.8 265.4	5108	02N/07E-08K03 M	44.5	10/22/84 03/25/85	84.0 (8) 78.5 (8)	-39.5 -32.0	5110
07N/08E-18F01 M	140.0	03/11/85	97.8	42.2	50S0	02N/07E-08N01 M	40.0	10/07/84 01/11/85	69.4 63.0	-29.4 -23.0	#201
07N/08E-38B01 M	185.0	10/16/84 03/25/85	8.0 4.0	177.0 181.0	5108	02N/07E-08G02 M	46.0	10/15/84 03/12/85	74.2 64.5	-28.2 -22.5	50S0
8-03.8	LOWER MODELUMME HA					02N/07E-09802 M	54.0	10/22/84 03/25/85	95.4 NM-9	-41.4	5110
02N/06E-01A01 M	37.6	10/15/84 03/12/85	56.8 34.0	-19.2 -16.4	50S0	02N/07E-09811 M	33.8	10/39/84 01/11/85	52.2 72.2	-28.4 -14.4	8201
02N/06E-01A13 M	37.7	10/05/84 11/07/84 12/03/84 01/10/85 02/14/85 03/05/85 04/04/85 05/08/85 06/08/85 07/10/85 08/06/85 09/11/85	57.1 56.1 55.2 54.6 54.2 53.9 53.9 54.7 53.9 56.9 58.5 58.3	-19.4 -18.4 -17.5 -16.9 -16.5 -16.2 -16.1 -17.0 -18.2 -19.2 -20.8 -20.6	8201	02N/07E-18E01 M	33.3	10/15/84 03/12/85	51.0 51.0	-16.8 -17.0	50S0
02N/06E-03D03 M	22.0	10/18/84 03/13/85	54.0 (8) 50.0 (8)	-32.0 -28.0	5110	02N/07E-18K01 M	38.5	10/24/84 03/25/85	65.0 (6) 61.0 (6)	-26.5 -24.5	
02N/06E-03R11 M	15.1	10/02/84 01/03/85	40.6 33.5	-25.5 -15.4	8201	03N/05E-13A01 M	18.8	10/33/84 01/05/85	17.0 14.2	1.8 .6	#201
02N/06E-06A02 M	13.0	10/15/84 03/12/85	42.2 35.4	-29.2 -22.4	50S0	03N/05E-13L01 M	12.0	10/19/84 03/13/85	11.0 (8) 13.0 (8)	1.0 -1.0	5110
02N/06E-11F12 M	26.5	10/02/84 11/07/84 12/05/84 01/03/85 02/14/85 03/05/85 04/04/85 05/08/85 06/08/85 07/10/85 08/06/85 09/11/85	56.3 53.0 53.7 52.5 52.1 51.9 51.8 51.8 51.8 56.7 58.4 57.4	-29.8 -24.5 -27.2 -28.0 -28.3 -22.6 -22.3 -25.0 -27.0 -30.2 -31.9 -30.9	8201	03N/05E-24A12 M	14.0	10/33/84 01/04/85	27.7 14.3	-13.7 -44.3	#201
02N/06E-11L01 M	24.0	10/29/84 11/29/84 12/28/84 01/24/85 02/22/85 03/25/85 04/25/85 05/24/85 06/24/85 07/25/85	57.1 55.2 54.1 52.9 51.5 49.7 52.9 44.6 57.6 59.9	-33.1 -31.2 -30.1 -24.0 -27.5 -26.7 -28.5 -30.6 -31.6 -35.9	50S0	03N/06E-01D10 M	51.6	10/02/84 01/23/85	33.0 33.8	18.8 19.0	8201
						03N/06E-01C11 M	51.6	10/32/84 01/03/85	30.9 32.1	20.7 19.5	#201
						03N/06E-01N02 M	46.8	10/32/84 11/07/84 12/04/84 01/23/85 02/11/85 03/34/85 04/04/85 05/20/85 06/25/85 07/04/85 08/25/85 09/10/85	41.4 40.2 40.1 40.4 40.4 40.5 40.1 40.2 40.6 41.7 42.3 43.3	5.4 6.6 8.7 8.4 6.2 6.3 8.7 8.6 8.2 5.1 4.3 3.5	#201
						03N/06E-01P13 M	53.1	10/32/84 11/27/84 12/24/84 01/03/85 02/11/85 03/24/85 04/24/85 05/26/85 06/25/85	43.0 42.2 42.0 41.9 41.8 41.9 41.9 42.9 45.2	10.1 10.9 11.1 11.2 11.2 9.2 9.3 10.2 7.9	#201

TABLE D (CONTINUED)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY	STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY
N R-03 R-03.5	SAN JOAQUIN NR NORTH VALLEY FLOOR HU LOWER MODELMUNE HA					A R-03 R-03.5	SAN JOAQUIN NR NORTH VALLEY FLOOR HU LOWER MODELMUNE HA				
03M/06E-01013 M	93.1	07/08/85 08/05/85 09/06/85	45.3 46.4 46.4	7.8 8.7 8.7	R201	03M/06E-22012 M	29.6	10/02/84 01/24/85	45.2 41.4	-15.6 -11.8	8201
03M/06E-03A12 M	50.3	10/02/84 11/07/84 12/04/84 01/04/85 02/11/85 03/04/85 04/04/85 05/09/85 06/05/85 07/08/85 08/05/85 09/10/85	33.1 42.2 33.9 43.0 33.9 44.4 42.9 43.7 44.2 45.8 45.2 43.5	17.2 6.1 16.8 8.5 14.4 5.9 7.8 6.6 6.1 4.5 4.1 6.8	R201	03M/06E-23A13 M	38.8	10/32/84 03/03/85	31.0 46.8	-12.2 -10.0	8201
						03M/06E-24A03 M	39.0	03/15/85	49.7	-10.7	5050
						03M/06E-25C11 M	39.6	10/01/84 01/10/85	53.9 50.3	-14.3 -10.7	8201
						03M/06E-25M15 M	41.1	10/35/84 11/37/84 12/35/84 01/10/85 02/14/85 03/33/85 04/04/85 05/29/85 06/06/85 07/10/85 08/06/85 09/11/85	56.7 56.0 55.5 54.5 53.2 56.2 55.8 NM-1 57.9 NM-1 NM-1 60.7	-17.6 -14.9 -14.4 -13.4 -12.1 -15.1 -14.7 -16.9	8201
03M/06E-03113 M	40.5	10/02/84 11/07/84 12/04/84 01/04/85 02/11/85 03/04/85 04/04/85 05/09/85 06/05/85 07/08/85 08/05/85 09/10/85	34.6 33.2 33.3 35.0 33.4 33.7 34.0 34.4 37.2 39.0 39.6 38.9	5.9 7.3 7.2 5.5 7.1 6.8 6.5 6.1 3.3 1.5 .9 1.6	8201	03M/06E-25R05 M	39.6	10/15/84 03/12/85	48.8 54.3	-19.2 -14.7	5050
						03M/06E-26N11 M	29.4	10/32/84 01/04/85	42.9 41.8	-13.1 -12.4	8201
03M/06E-04C01 M	35.0	03/13/85	23.9	11.1	5050	03M/06E-26P02 M	32.4	10/16/84 03/13/85	45.1 44.1	-12.7 -11.7	5110
03M/06E-04P12 M	36.2	10/02/84 01/08/85	39.0 32.0	-2.4 4.2	R201	03M/06E-27E01 M	25.3	03/03/85	39.5	-14.2	5110
03M/06E-05C12 M	28.5	10/02/84 01/04/85	12.4 14.1	16.1 14.4	8201	03M/06E-27L11 M	27.2	10/02/84 01/04/85	42.7 41.1	-15.3 -13.9	8201
03M/06E-06D12 M	23.1	10/02/84 11/07/84 12/04/84 01/08/85 02/11/85 03/04/85 04/04/85 05/09/85 06/05/85 07/08/85 08/05/85 09/10/85	11.1 11.5 11.3 11.8 11.5 11.6 11.5 11.6 11.2 12.1 13.5 14.0 12.1	12.0 11.6 11.8 11.8 11.6 11.6 11.6 11.9 12.1 9.6 9.1 11.0	8201	03M/06E-28012 M	24.1	10/02/84 01/24/85	43.7 36.7	-19.6 -14.6	8201
						03M/06E-29C01 M	17.2	10/19/84 03/13/85	55.5 53.5	-36.3 -36.3	5110
						03M/06E-30R01 M	12.0	10/19/84 03/13/85	35.0(8) 26.0(8)	-23.0 -14.0	5110
						03M/06E-32J13 M	18.8	10/32/84 01/05/85	41.0 35.4	-22.2 -16.0	8201
03M/06E-07013 M	21.0	10/03/84 01/08/85	15.3 15.0	5.7 6.0	R201	03M/06E-32R01 M	13.0	10/19/84 03/13/85	40.0(8) NM-9	-29.0	5110
03M/06E-07M03 M	23.4	10/18/84 03/13/85	27.4(4) 23.4(4)	-4.0 .0	5110	03M/06E-34E13 M	23.2	10/32/84 01/24/85	40.6 39.0	-17.4 -15.8	8201
03M/06E-09F06 M	32.0	10/18/84 03/13/85	34.0 32.0	-2.0 .0	5110	03M/06E-35P02 M	28.4	10/19/84 03/12/85	46.2 44.4	-17.8 -16.0	5050
03M/06E-09M11 M	27.6	10/02/84 01/05/85	36.0 32.6	-8.4 -5.0	8201	03M/06E-35R13 M	32.2	10/32/84 01/33/85	50.0 48.3	-17.8 -16.1	8201
03M/06E-12Q32 M	49.1	10/02/84 11/07/84 12/04/84 01/03/85 02/11/85 03/04/85 04/04/85 05/09/85 06/05/85 07/08/85 08/05/85 09/10/85	40.9 43.1 44.2 45.1 46.1 46.2 46.7 46.7 43.6 44.1 45.8 46.6 51.4	8.2 6.0 4.9 4.0 3.0 2.9 2.4 5.7 5.0 3.3 2.5 -2.3	8201	03M/07E-02C02 M	64.6	10/17/84 11/06/84 12/24/84 01/17/85 02/13/85 03/25/85 04/04/85 05/29/85 06/05/85 07/10/85 08/36/85 09/10/85	59.7 59.1 59.0 59.0 59.2 59.2 59.4 60.4 60.9 62.6 62.9 62.9	24.9 25.5 25.6 25.6 25.4 25.4 25.2 23.7 22.0 21.7 21.7	8201
03M/06E-13R08 M	45.6	10/13/84 03/21/85	54.8 50.9	-9.2 -5.3	5050	03M/07E-02G03 M	84.0	10/18/84 03/21/85	86.2 80.3	-2.2 3.7	5050
03M/06E-14M12 M	33.7	10/02/84 01/03/85	45.6 42.7	-11.9 -9.0	8201	03M/07E-02O01 M	82.1	10/17/84 01/17/85	89.9 83.1	-7.8 -3.0	8201
03M/06E-15M12 M	33.3	10/02/84 01/04/85	44.1 40.5	-10.8 -7.2	8201	03M/07E-03A11 M	81.7	10/11/84 01/15/85	53.2 51.9	28.5 26.8	8201
03M/06E-17M11 M	23.8	10/02/84 11/07/84 12/04/84 01/04/85 02/11/85 03/04/85 04/04/85 05/09/85 06/05/85 07/08/85 08/05/85 09/10/85	30.9 29.6 28.8 30.9 27.4 27.0 28.5 27.3 NM-1 33.5 37.9 34.4	-7.1 -5.8 -5.0 -7.1 -3.6 -3.2 -2.7 -3.5 -9.7 -14.1 -10.7	8201	03M/07E-03R01 M	74.8	10/14/84 03/13/85	93.6(8) 74.6(8)	-18.8 .2	5110
						03M/07E-04O01 M		10/10/84 01/14/85	NM-9 NM-9		8201
						03M/07E-05O12 M	62.7	10/10/84 01/14/85	34.9 29.6	27.4 33.1	8201
						03M/07E-06M11 M	54.7	10/04/84 01/10/85	37.7 37.4	17.0 17.3	8201
03M/06E-20C13 M	18.6	10/03/84 01/08/85	34.8 28.5	-16.2 -9.9	8201	03M/07E-06Q04 M	57.0	10/18/84 03/13/85	51.0 44.0	6.0 11.0	5110
03M/06E-20O01 M	18.0	10/19/84 04/03/85	NM-3 34.0	-16.0	5110	03M/07E-08R12 M	63.4	10/30/84 11/28/84 12/35/84 01/14/85 02/14/85 03/35/85 04/24/85 05/29/85 06/25/85 07/10/85	57.6 57.4 59.1 54.1 53.7 57.0 56.0 67.5 NM-1 80.0	5.8 6.0 5.3 9.3 9.7 6.4 7.4 4.1 -1.6	8201
03M/06E-21M11 M	24.8	10/07/84 01/04/85	41.2 36.5	-16.4 -11.7	R201						
03M/06E-22M01 M	27.0	10/19/84 03/13/85	44.0(4) 42.0(4)	-21.0 -15.0	5110						

TABLE D (CONTINUED)

GROUND WATER LEVELS AT WELLS											
STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY	STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY
B B-03.4	SAN JOAQUIN NB NORTH VALLEY FLOOR HU LOWER MOKELURNE HA					B B-03.6	SAN JOAQUIN NB NORTH VALLEY FLOOR HU LOWER MOKELURNE HA				
03N/07E-08812 M	63.4	08/06/85 09/11/85	NH-1 67.9	-4.5	8201	03N/07E-23611 M	70.4	02/14/85 03/05/85 04/04/85 05/08/85 06/06/85 07/10/85 08/06/85 09/11/85	64.9 65.6 65.0 67.5 68.8 67.4 69.1 90.0	-14.5 -20.2 -12.8 -17.1 -18.4 -17.0 -18.7 -14.6	8201
03N/07E-08E02 M	60.0	10/18/84 03/12/85	69.5 66.5	-9.5 -6.5	5110						
03N/07E-09C01 M	68.3	10/18/84 03/13/85	64.0 72.0	-15.7 -3.7	5110						
03N/07E-09C03 M	69.6	10/10/84 01/14/85	69.4 65.4	-0.2 -4.2	8201	03N/07E-23C02 M	72.0	10/18/84 03/13/85	68.0 77.0	-16.0 -9.0	5110
03N/07E-09P01 M	64.3	10/10/84 03/14/85	60.7 65.1	-3.4 -0.8	8201	03N/07E-23F11 M	68.0	10/11/84 01/14/85	87.2 82.3	-19.2 -14.3	8201
03N/07E-10L04 M	72.8	10/11/84 11/08/84 12/05/84 01/15/85 02/14/85 03/05/85 04/04/85 05/09/85 06/05/85 07/10/85 08/06/85 09/11/85	78.9 77.2 75.9 74.6 72.9 74.5 74.1 NH-1 NH-1 NH-1 NH-1 82.9	-6.1 -4.4 -3.1 -1.8 -1.1 -1.7 -1.3 -15.0 -10.1	8201	03N/07E-23H11 M	67.0	10/11/84 11/07/84 12/05/84 01/15/85 02/14/85 03/05/85 04/04/85 05/08/85 06/06/85 07/10/85 08/06/85 09/11/85	90.3 85.1 84.0 82.7 81.1 84.6 83.0 82.9 84.6 88.1 90.0 91.1	-22.3 -21.1 -17.0 -15.7 -16.0 -17.6 -16.0 -15.9 -17.6 -11.1 -23.0 -24.1	8201
03N/07E-12P01 M	77.0	03/20/85	67.6	-10.6	5050	03N/07E-25C01 M	70.1	10/22/84 03/25/85	107.0(83) 104.0(83)	-37.7 -34.7	5110
03N/07E-13411 M	82.3	10/17/84 01/17/85	102.1 94.5	-19.8 -12.2	8201	03N/07E-25F11 M	71.7	10/10/84 01/14/85	95.5 88.2	-23.8 -16.5	8201
03N/07E-14801 M	75.9	10/17/84 01/17/85	89.4 82.5	-13.5 -8.6	8201	03N/07E-25G01 M	75.7	10/22/84 03/13/85	106.0(6) 102.0(6)	-30.3 -26.3	5110
03N/07E-14M11 M	75.3	10/10/84 01/14/85	92.6 87.9	-17.3 -12.6	8201	03N/07E-26011 M	66.9	10/11/84 01/15/85	92.0 91.7	-25.1 -24.8	8201
03N/07E-14O11 M	70.2	10/11/84 11/07/84 12/05/84 01/14/85 02/14/85 03/05/85 04/04/85 05/08/85 06/05/85 07/10/85 08/06/85 09/11/85	87.7 84.0 83.0 82.0 80.7 90.8 94.9 96.1 88.5 90.0 96.2 94.9	-17.5 -24.7 -12.8 -11.0 -10.5 -26.6 -24.7 -25.9 -14.3 -19.8 -26.0 -24.7	8201	03N/07E-26G12 M	65.9	10/10/84 11/07/84 12/05/84 01/14/85 02/14/85 03/05/85 04/04/85 05/08/85 06/05/85 07/10/85 08/06/85 09/11/85	66.8 63.8 62.7 61.6 62.4 63.3 NH-1 83.0 84.5 88.1 89.6 89.8	-20.9 -17.9 -16.0 -16.7 -15.5 -17.4 -17.1 -16.6 -23.7 -23.4	8201
03N/07E-17A31 M	60.1	10/09/84 01/14/85	65.1 59.7	-5.0 -4	8201	03N/07E-27F13 M	61.1	10/10/84 11/07/84 12/05/84 01/14/85 02/14/85 03/05/85 04/04/85 05/08/85 06/05/85 07/10/85 08/06/85 09/11/85	82.1 80.1 78.9 77.6 76.8 76.1 75.2 78.0 89.5 93.3 89.6 89.8	-21.4 -19.0 -17.8 -16.5 -15.7 -15.0 -14.1 -16.9 -28.4 -22.2 -23.4	8201
03N/07E-17011 M	57.2	10/09/84 01/14/85	59.2 54.8	-2.0 -2.4	8201						
03N/07E-17K02 M	57.0	10/18/84 03/13/85	73.5(8) 62.5(8)	-16.5 -5.5	5110						
03N/07E-18D12 M	50.0	10/18/84 03/13/85	55.6 52.1	-5.6 -2.1	5110						
03N/07E-18G02 M	53.8	10/09/84 01/14/85	57.2 56.4	-3.4 -2.6	8201	03N/07E-28H11 M	56.2	10/09/84 11/07/84 12/05/84 01/11/85 03/05/85 04/04/85 05/08/85 06/05/85 07/10/85 08/06/85 09/11/85	79.3 77.4 76.3 74.6 NH-1 72.6 72.5 72.4 73.9 76.9 78.6 79.6	-23.1 -21.2 -20.1 -18.4 -16.4 -16.3 -16.2 -17.7 -20.7 -22.4 -23.6	8201
03N/07E-18M11 M	48.0	10/05/84 11/07/84 12/04/84 01/10/85 02/14/85 03/05/85 04/04/85 05/09/85 06/05/85 07/10/85 08/06/85 09/11/85	59.1 54.5 53.6 52.6 52.1 52.2 51.8 50.5 NH-1 68.7 70.3 64.4	-11.1 -8.5 -5.6 -4.6 -4.1 -4.2 -5.6 -11.5 -20.7 -22.3 -16.4	8201	03N/07E-29L11 M	49.4	10/09/84 01/13/85	72.2 64.9	-22.8 -15.5	8201
03N/07E-19A02 M	42.0	10/15/84 03/12/85	58.8 53.3	-16.8 -11.3	5050	03N/07E-29P01 M	47.5	10/09/84 01/11/85	76.0 68.4	-28.5 -20.9	8201
03N/07E-19Q12 M	45.4	10/09/84 01/11/85	64.0 56.4	-18.6 -11.0	8201	03N/07E-30012 M	42.5	10/05/84 01/10/85	59.6 54.0	-17.1 -11.5	8201
03N/07E-20C11 M	54.2	10/09/84 01/11/85	67.8 60.6	-13.6 -8.4	8201	03N/07E-31801 M	41.0	10/18/84 03/13/85	67.5 57.5	-27.5 -16.5	5110
03N/07E-20P02 M		10/18/84 03/10/85	NH-5 NH-5		5110	03N/07E-32012 M	49.0	10/09/84 01/11/85	70.7 65.2	-21.7 -18.2	8201
03N/07E-22C11 M	66.4	10/11/84 11/07/84 12/05/84 01/15/85 02/14/85 03/05/85 04/04/85 05/09/85 06/05/85 07/10/85 08/06/85 09/11/85	82.4 79.7 78.7 77.1 76.2 75.9 74.8 88.2 79.3 86.9 87.3 84.7	-16.0 -13.5 -12.3 -10.7 -9.6 -8.4 -21.8 -13.1 -20.5 -20.9 -18.3	8201	03N/07E-33E11 M	51.3	10/09/84 01/11/85	77.9 70.4	-26.6 -19.1	8201
						03N/07E-34J11 M	60.5	10/10/84 01/14/85	88.5 77.5	-28.0 -17.0	8201
						03N/07E-35C02 M	61.2	10/22/84 03/15/85	120.0(6) NH-0	-56.8	5110
						03N/07E-35L01 M	64.0	10/24/84 03/15/85	99.5(8) 90.5(8)	-35.5 -26.5	5110
03N/07E-23811 M	70.4	10/13/84 11/07/84 12/05/84 01/14/85	95.7 87.9 87.2 87.9	-25.3 -17.5 -18.0 -17.1	8201	03N/07E-36K02 M		10/28/84	NH-3		5110

TABLE D (CONTINUED)

GROUND WATER LEVELS AT WELLS												
STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND WATER	WATER SURFACE ELEV.	AGENCY	STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND WATER	WATER SURFACE ELEV.	AGENCY	
8 8-03 8-03.8	SAW JOAGUIN MB NORTH VALLEY FLOOR HU LOWER MOKELEHNE NA					8 8-03 8-03.8	SAW JOAGUIN MB NORTH VALLEY FLOOR HU LOWER MOKELEHNE NA					
03N/08E-03R01 M		10/22/84 03/28/85	NM-9 NM-9		5110	04N/08E-11R01 M	47.0	10/10/84 03/24/85	63.1 54.7	-18.1 -7.7	9001	
03N/08E-04R01 M	120.5	10/17/84 01/17/85	135.3 131.9	-14.7 -11.3	8201	04N/08E-12C04 M	55.0	10/18/84 03/14/85	71.0(4) 66.9	-18.0 -11.5	5110	
03N/08E-05R11 M	109.2	10/17/84 01/17/85	117.0 112.0	-11.8 -6.8	8201	04N/08E-12R11 M	52.5	10/14/84 01/10/85	66.0 63.9	-13.5 -11.4	8201	
03N/08E-05K11 M	107.5	10/17/84 01/17/85	128.2 120.2	-20.7 -12.7	8201	04N/08E-12H02 M	52.0	10/18/84 03/14/85	50.8 54.4	-7.8 -3.8	5110	
03N/08E-06E01 M	96.0	10/17/84 01/17/85	88.6 84.6	29.4 31.4	8201	04N/08E-12R11 M	58.0	10/04/84 11/07/84 12/04/84 01/10/85 02/11/85 03/25/85 04/04/85 05/09/85 06/05/85 07/09/85 08/08/85 09/25/85	73.6 72.1 71.3 69.0 67.6 66.6 63.5 65.8 NM-1 72.2 74.2 77.2	-15.6 -14.1 -13.3 -11.0 -9.6 -8.6 -7.4 -7.8 -14.2 -16.2 -19.2	8201	
03N/08E-07R02 M	96.0	03/20/85	97.2	-11.2	5050							
03N/08E-08E01 M	95.8	10/22/84 03/25/85	122.3(3) 109.3(3)	-26.5 -13.5	5110							
03N/08E-09R01 M	128.3	10/17/84 01/17/85	148.7 144.1	-20.4 -17.8	8201							
03N/08E-11R11 M	140.4	10/17/84 01/17/85	154.8 160.6	-14.4 -20.4	8201							
03N/08E-11H02 M	156.0	03/21/85	156.6	-0.6	5050	04N/08E-13F01 M	53.4	10/04/84 01/10/85	62.1 58.4	-8.7 -5.0	8201	
03N/08E-12F11 M	181.7	10/17/84 01/17/85	188.7 188.0	-7.0 -6.3	8201	04N/08E-13G01 M		10/18/84 03/14/85	NM-4 NM-4			5110
03N/08E-17R01 M	95.9	10/17/84 01/17/85	118.2 112.9	-22.3 -17.0	8201	04N/08E-14M11 M	43.7	10/04/84 01/29/85	42.7 46.7	1.0 -3.0	8201	
03N/08E-17R11 M	98.6	10/10/84 01/14/85	122.3 115.2	-23.7 -18.6	8201	04N/08E-15R02 M	40.0	10/18/84 03/14/85	39.7 35.7	.3 4.3	5110	
03N/08E-18C01 M		10/23/84 04/11/85	NM-3 104.3	-19.8	5110	04N/08E-18A11 M	37.1	10/04/84 01/09/85	35.0 32.3	2.1 4.8	8201	
03N/08E-19H12 M	75.8	10/10/84 01/14/85	100.3 94.4	-24.5 -18.6	8201	04N/08E-18C11 M	31.4	10/04/84 01/29/85	25.0 23.3	6.4 8.1	8201	
03N/08E-20K01 M		10/10/84 01/14/85	ORV ORV		8201	04N/08E-18K11 M	35.4	10/04/84 01/29/85	28.3 25.8	9.1 9.6	8201	
03N/08E-22A01 M		10/22/84 03/25/85	NM-1 NM-9		5110	04N/08E-17A02 M	30.5	10/03/84 01/29/85	20.3 20.4	10.2 10.1	8201	
03N/08E-26R01 M	130.0	10/29/84 11/29/84 12/28/84 01/23/85 02/28/85 03/25/85 04/23/85 05/24/85 06/24/85	149.7 148.0 147.5 145.0 146.1 144.1 148.2 151.2 147.7	-19.7 -18.0 -17.3 -15.0 -16.1 -14.1 -18.2 -21.2 -17.7	5050	04N/08E-17R01 M		10/18/84	NM-8		5110	
03N/08E-27R01 M	126.4	10/22/84 03/25/85	135.3(6) 126.8(6)	-8.9 -4.4	5110	04N/08E-18E15 M	20.4	10/03/84 01/09/85	16.3 13.4	4.1 7.0	8201	
03N/08E-29K11 M		10/10/84 01/14/85	ORV ORV		8201	04N/08E-18R12 M	26.8	10/03/84 01/09/85	22.7 14.3	4.1 12.3	8201	
03N/08E-30H01 M		10/23/84	NM-8		5110	04N/08E-19F01 M	21.8	05/13/85	10.9	10.9	5050	
03N/08E-31E11 M	78.5	10/10/84 01/14/85	38.2 46.3	38.3 30.2	8201	04N/08E-19R12 M	25.4	10/02/84 11/37/84 12/04/84 01/09/85 02/11/85 03/04/85 04/04/85 05/09/85 06/05/85 07/09/85 08/03/85 09/10/85	11.6 12.4 12.6 13.0 13.0 12.8 12.0 10.8 14.6 NM-1 NM-1 15.3 13.8	13.8 13.0 12.6 12.4 11.1 12.6 13.4 14.6 NM-8 NM-1 NM-1 15.3 13.8	8201	
03N/08E-05R01 M		10/15/84	NM-3		5110							
04N/08E-13C12 M	17.7	10/03/84 01/08/85	13.3 11.4	4.4 5.8	8201	04N/08E-21A01 M	37.6	10/04/84 01/09/85	24.9 24.0	12.7 13.6	8201	
04N/08E-13H01 M	19.6	10/18/84 03/14/85	13.1(8) 11.6(8)	8.5 4.0	5110	04N/08E-21R01 M	31.0	03/13/85	19.4	11.6	5050	
04N/08E-24A14 M	21.5	10/03/84 01/08/85	15.1 13.2	8.4 8.3	8201	04N/08E-21C02 M	33.0	10/03/84 01/09/85	20.7 20.6	12.3 12.4	8201	
04N/08E-26K02 M	13.0	10/18/84 03/14/85	9.0 7.0	4.0 6.0	5110	04N/08E-22F02 M	38.4	10/04/84 01/29/85	29.6 26.1	8.8 10.3	8201	
04N/08E-28R11 M	14.8	10/03/84 01/08/85	10.1 8.1	4.7 6.7	8201	04N/08E-22M01 M	38.2	10/18/84 03/14/85	24.5 23.5	13.7 12.7	5110	
04N/08E-38C01 M	16.2	10/03/84 01/08/85	10.7 10.0	7.3 8.2	8201	04N/08E-23O12 M	45.3	10/04/84 01/29/85	39.4 52.6	5.9 -7.3	8201	
04N/08E-38H03 M	21.0	10/18/84 03/14/85	11.0 9.5	10.0 11.5	5110	04N/08E-23M01 M	45.2	10/02/84 11/07/84 12/04/84 01/09/85 02/11/85 03/04/85 04/04/85 05/09/85 06/05/85 07/09/85 08/03/85 09/10/85	37.4 36.8 35.3 34.2 33.8 33.7 33.7 36.0 38.2 37.0 31.4 28.9	7.8 8.4 9.0 11.0 11.4 11.5 11.5 9.2 7.0	8201	
04N/08E-03A12 M	48.3	10/04/84 01/09/85	37.4 38.9	-9.1 -10.6	8201							
04N/08E-04R11 M	32.2	10/04/84 01/10/85	34.0 35.0	-21.8 -2.8	82C1							
04N/08E-05H11 M		10/04/84 01/10/85	NM-9 NM-9		8201	04N/08E-24O11 M	53.2	10/04/84 01/10/85	51.0 41.0	1.3 2.2	8201	
04N/08E-05R01 M	30.0	03/22/85	28.8	1.4	5050	04N/08E-24F01 M	55.0	10/18/84 03/14/85	47.0 50.0	8.0 5.0	5110	
04N/08E-05R11 M	34.0	10/04/84 01/10/85	42.1 35.0	-8.1 -1.0	8201	04N/08E-25R30 M	57.1	10/04/84	49.8	7.3	8201	

TABLE D (CONTINUED)
GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND WATER	WATER SURFACE ELEV.	AGENCY	STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND WATER	WATER SURFACE ELEV.	AGENCY
1 8-03 8-03.5	SAN JOAQUIN NB NORTH VALLEY FLOOR HU LOWER WOKELUMME WA					8 8-03 8-03.8	SAN JOAQUIN NB NORTH VALLEY FLOOR HU LOWER WOKELUMME WA				
04N/06E-25930 M	57.1	01/10/85	47.7	9.4	8201	04N/07E-18930 M	61.4	12/34/84	59.9	-8.5	8201
04N/06E-25901 M	55.0	10/16/84	44.0	11.0	5110	04N/07E-19903 M	62.4	10/18/84	65.0(8)	-2.6	3110
04N/06E-26401 M	51.1	10/03/84	41.1	10.0	8201	04N/07E-19911 M	66.7	10/11/84	69.6	-2.9	8201
04N/06E-27812 M	40.6	10/03/84	27.3	13.3	8201	04N/07E-20403 M	75.0	03/22/85	72.0	3.0	5050
04N/06E-27802 M	34.5	10/18/84	10.0(8)	24.5	5110	04N/07E-20801 M		10/12/84	DBY		8201
04N/06E-27012 M	46.5	10/03/84	26.2	20.3	8201	04N/07E-21601 M	76.2	10/14/84	72.0	-3.8	5110
04N/06E-26812 M		10/03/84	NM-9		4201	04N/07E-22005 M	83.8	10/32/84	73.4	4.4	8201
04N/06E-29401 M	33.0	03/14/85	20.7	12.3	5110			11/08/84	76.1	5.7	
04N/06E-29402 M	26.0	10/18/84	15.0(8)	11.0	5110			12/34/84	77.3	6.5	
04N/06E-31401 M	30.7	10/03/84	16.0	14.7	8201			01/16/85	62.5	-2.9	8201
04N/06E-33804 M	36.0	03/13/85	20.1	15.9	5050	04N/07E-23912 M	95.2	10/15/84	103.6	-7.4	8201
04N/06E-33813 M	34.4	10/03/84	12.7	21.7	8201	04N/07E-24911 M	79.6	01/17/85	70.3	9.3	8201
04N/06E-33801 M	36.6	10/02/84	20.9	17.9	8201	04N/07E-25913 M		10/15/84	DBY		8201
04N/06E-35011 M	46.5	10/03/84	24.5	24.0	8201	04N/07E-25915 M	81.7	10/15/84	82.3	-3.6	8201
04N/06E-36012 M	49.4	10/02/84	30.6	18.8	8201			11/08/84	NM-1		
		11/07/84	24.6	19.8				12/34/84	87.6	1.1	
		12/04/84	29.5	19.9				01/17/85	86.2	2.5	
		01/09/85	29.5	19.9				02/13/85	85.3	3.4	
		02/21/85	29.7	19.7				03/04/85	84.0	3.9	
		04/05/85	29.9	19.5				04/02/85	84.5	4.2	
		04/04/85	29.0	20.4				05/07/85	NM-9		
		05/09/85	31.5	17.9				06/05/85	NM-1		
		06/06/85	34.6	14.6				07/10/85	NM-1		
		07/09/85	33.6	15.6				08/07/85	98.6	-9.9	
		08/06/85	NM-1					09/10/85	NM-1		
		09/10/85	33.9	15.5							
04N/07E-04812 M	90.2	10/12/84	116.7	-26.5	8201	04N/07E-25903 M	63.1	10/15/84	19.9	43.2	8201
04N/07E-04812 M		01/16/85	109.7	-15.5		04N/07E-26811 M	91.7	10/18/84	90.8	2.9	8201
04N/07E-04812 M	83.4	10/12/84	108.7	-25.3	8201			01/16/85	84.5	9.2	
04N/07E-07401 M	68.0	10/18/84	86.5	-20.5	5110	04N/07E-27901 M	81.5	10/12/84	41.4	40.1	8201
04N/07E-07401 M		01/14/85	80.0(8)	-12.0				11/08/84	41.4	40.1	
04N/07E-07411 M	67.6	10/04/84	90.1	-22.5	8201			12/34/84	40.0	41.5	
04N/07E-07411 M		01/10/85	81.6	-14.0				01/16/85	40.8	40.7	
04N/07E-09013 M	77.4	10/12/84	100.3	-22.9	8201			02/13/85	42.5	39.0	
04N/07E-09013 M		01/16/85	91.6	-14.2				03/04/85	42.8	38.7	
04N/07E-11001 M	101.5	10/15/84	108.9	-7.4	8201			04/02/85	43.7	37.8	
04N/07E-11001 M		01/16/85	110.2(3)	-6.7				05/07/85	43.5	38.0	
04N/07E-13002 M	107.4	10/15/84	123.0	-15.6	8201	04N/07E-28902 M	74.8	10/18/84	67.5(8)	7.3	5110
04N/07E-13002 M		01/16/85	121.2	-13.8				03/12/85	65.5(8)	9.3	
04N/07E-13911 M	114.3	10/15/84	125.5	-11.2	8201	04N/07E-28911 M	72.0	10/11/84	53.0	19.0	8201
04N/07E-13911 M		01/16/85	119.3	-5.0				01/16/85	49.8	22.2	
04N/07E-14901 M	93.1	10/18/84	113.0	-19.9	5110	04N/07E-29401 M	73.6	10/12/84	69.3	1.3	8201
04N/07E-14901 M		03/12/85	111.0	-17.9				11/08/84	64.6	6.0	
04N/07E-14911 M	94.8	10/13/84	108.8	-14.0	8201			12/04/84	63.4	7.2	
04N/07E-14911 M		01/16/85	100.9	-8.1				01/16/85	62.2	8.4	
04N/07E-15812 M	91.8	10/15/84	109.9	-18.1	8201			02/13/85	61.9	9.1	
		11/28/84	100.0	-14.2				03/04/85	61.2	9.4	
		12/05/84	104.4	-12.6				04/02/85	61.2	9.4	
		01/16/85	100.6	-8.8				05/07/85	60.5	4.1	
		02/13/85	99.1	-7.3				06/05/85	NM-1		
		03/04/85	99.8	-6.0				07/11/85	70.4	2	
		04/02/85	NM-1					08/07/85	80.2	-9.8	
		05/07/85	103.5	-11.7				09/10/85	71.3	-7.7	
		06/05/85	107.9	-16.1		04N/07E-29412 M	61.9	10/13/84	55.4	10.1	8201
		07/13/85	NM-1					01/16/85	50.0	15.5	
		08/07/85	117.9	-26.1		04N/07E-30604 M	57.1	10/24/84	46.4	8.7	8201
		09/10/85	113.1	-21.3				01/13/85	46.1	11.0	
04N/07E-19002 M	67.9	10/15/84	87.9	.0	8201	04N/07E-31411 M	49.9	10/04/84	13.0	32.9	8201
04N/07E-19002 M		01/16/85	85.6	2.3				01/12/85	17.1	28.8	
04N/07E-16001 M	76.9	10/12/84	93.2	-16.3	8201	04N/07E-31011 M	56.9	10/10/84	32.1	26.8	8201
04N/07E-17113 M	74.9	10/11/84	87.4	-12.5	8201			01/14/85	32.3	26.6	
04N/07E-17113 M		01/16/85	78.9	-4.0		04N/07E-32911 M	66.4	10/11/84	50.4	16.0	8201
04N/07E-17101 M	67.0	10/14/84	81.3(8)	-14.3	5110			01/16/85	46.2	20.2	
04N/07E-18001 M	57.8	03/22/85	61.4	-3.6	5050	04N/07E-33111 M	63.8	10/11/84	55.0	8.8	8201
								01/16/85	47.7	16.1	
						04N/07E-33101 M	73.4	10/18/84	40.4	33.0	1110
								03/12/85	39.4	34.0	

TABLE D (CONTINUED)
GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY	STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY	
B 8-03 8-03.8	SAN JOAQUIN NB NORTH VALLEY FLOOR HU LOWER MONELUMME HA					R 8-03 8-03.8	SAN JOAQUIN NB NORTH VALLEY FLOOR HU LOWER MONELUMME HA					
04N/07E-34F11 M	81.6	10/11/84 11/08/84 12/04/84 01/16/85 02/14/85 03/05/85 04/04/85 05/09/85 06/05/85 07/03/85 08/06/85 09/11/85	18.3 16.4 17.7 18.6 19.0 20.7 20.6 20.6 20.1 20.5 20.6 20.8	43.3 43.2 43.9 43.0 41.7 40.0 41.0 41.0 41.5 41.1 41.0 40.8	#201	04N/08E-12N01 M	113.1	11/15/84 12/14/84 01/25/85 02/20/85 03/08/85 04/10/85 05/16/85 06/12/85 07/14/85 08/16/85 09/20/85	63.3 62.9 62.9 62.7 64.8 63.1 NM-1 64.5 NM-1 66.7 NM-1	49.8 50.2 50.2 50.4 47.3 50.0 46.6 46.4	#201	
04N/07E-34L03 M	82.3	10/11/84 01/16/85	40.1 43.1	42.2 39.2	#201	04N/08E-12P11 M	109.5	10/25/84 11/15/84 12/14/84 01/23/85 02/20/85 03/05/85 04/10/85 05/16/85 06/12/85 07/14/85 08/16/85 09/20/85	59.1 57.7 57.6 57.7 57.5 NM-1 NM-1 61.0 62.9 NM-1 NM-1	51.4 51.4 51.9 51.8 52.0	#201	
04N/07E-35C11 M	89.2	10/12/84 01/16/85	64.7 61.9	24.5 27.3	#201							
04N/07E-35C13 M		10/15/84 01/16/85	NM-9 DRY		#201							
04N/07E-35C14 M	89.2	10/15/84 01/16/85	83.1 77.6	6.1 11.8	#201							
04N/07E-35E13 M	87.3	10/12/84 01/16/85	83.0 76.2	4.3 11.1	#201	04N/08E-13G12 M	153.8	10/25/84 11/14/84 12/14/84 01/11/85 02/21/85 03/07/85 04/09/85 05/16/85 06/12/85 07/19/85 08/20/85 09/25/85	111.6 111.5 111.3 111.0 110.8 111.0 110.4 110.4 110.5 110.4 NM-1 NM-1 112.4	42.2 42.3 42.5 42.8 43.4 43.4 43.4 43.3 41.4	#201	
04N/07E-35J01 M	87.5	10/17/84 01/17/85	84.4 80.3	3.1 7.2	#201							
04N/07E-36C01 M	80.8	10/16/84 01/17/85	27.5 27.1	33.3 33.7	#201							
04N/07E-36L01 M	90.0	10/15/84 03/12/85	143.3(6) 109.0	-33.5 -19.0	5110							
04N/08E-01K01 M	170.7	10/22/84 11/09/84 12/11/84 01/22/85 02/19/85 03/11/85 04/10/85 05/08/85 06/17/85 07/19/85 08/12/85 09/16/85	106.7 99.1 106.7 106.9 NM-1 107.1 107.0 105.3 NM-1 110.7 NM-1 107.7	64.0 71.6 64.0 63.8 63.7 63.6 65.4 60.0 63.0	#201	04N/08E-14N11 M	160.4	10/26/84 11/13/84 12/28/84 01/23/85 02/21/85 03/07/85 04/10/85 05/17/85 06/11/85 07/15/85 08/16/85 09/20/85	135.1 132.4 132.3 131.0 130.4 131.0 130.4 133.7 133.9 135.5 135.6 135.3	25.3 27.9 24.1 29.4 30.0 29.4 30.0 26.7 26.8 24.9 24.6 23.1	#201	
04N/08E-09P11 M	141.5	10/22/84 01/22/85	141.3 138.0	4.2 3.5	#201	04N/08E-14N01 M	150.0	10/15/84 03/12/85	130.4 125.9	19.6 24.1	5110	
04N/08E-10F12 M	143.2	10/22/84 11/09/84 12/05/84 01/22/85 02/19/85 03/08/85 04/08/85 05/13/85 06/11/85 07/17/85 08/06/85 09/12/85	134.2 133.6 132.6 131.7 NM-1 131.1 NM-1 133.0 133.0 133.3 135.6 134.8	9.0 9.6 10.8 11.3 12.1 10.2 10.2 9.9 7.6 8.4	#201	04N/08E-14L12 M	135.0	10/25/84 01/23/85	116.9 109.0	18.1 26.0	#201	
04N/08E-11N12 M	94.3	10/22/84 11/09/84 12/05/84 01/22/85 02/19/85 03/08/85 04/08/85 05/13/85 06/11/85 07/17/85 08/06/85 09/12/85	81.2 81.4 81.2 81.4 81.4 81.4 81.7 NM-1 82.3 83.0 83.4 84.0	33.1 32.9 33.1 32.9 32.9 32.0 32.0 32.0 31.3 30.9 30.3	#201	04N/08E-15C01 M	106.5	10/19/84 11/08/84 12/25/84 01/14/85 02/19/85 03/25/85 04/29/85 05/13/85 06/26/85 07/17/85 08/26/85 09/12/85	67.0 67.1 65.1 67.0 67.6 67.3 68.0 68.4 68.3 68.9 69.1 68.8	39.5 39.4 41.4 39.5 38.9 38.6 38.5 38.1 38.2 37.6 37.4 37.7	#201	
04N/08E-11M12 M		10/22/84 11/09/84 12/05/84 01/22/85 02/19/85 03/08/85 04/08/85 05/13/85 06/11/85 07/09/85 08/06/85 09/12/85	81.2 81.4 81.2 81.4 81.3 81.4 81.7 NM-1 82.3 83.0 83.4 84.0	33.1 32.9 33.1 32.9 33.0 32.9 32.6	#201	04N/08E-15J11 M	132.4	10/19/84 11/28/84 12/25/84 01/13/85 02/13/85 03/26/85 04/29/85 05/13/85 06/26/85 07/17/85 08/26/85 09/12/85	119.4 116.5 117.7 117.0 116.3 116.3 115.4 NM-1 120.1 122.0 123.5 120.4	13.0 13.9 14.7 15.4 16.1 16.1 16.6 12.3 10.4 8.9 11.8	#201	
04N/08E-12A01 M	131.0	10/25/84 01/11/85	42.6 43.0	88.4 88.0	#201							
04N/08E-12A11 M	129.2	10/25/84 11/14/84 12/28/84 01/11/85 02/20/85 03/07/85 04/08/85 05/07/85 06/06/85 07/14/85 08/09/85 09/20/85	36.3 36.3 36.5 36.3 NM-1 36.8 36.5 NM-1 NM-1 NM-1 NM-1 NM-1	92.9 92.9 92.7 92.9 92.4 92.4 92.7	#201	04N/08E-15P14 M	133.2	10/19/84 01/18/85	95.5 95.7	34.7 34.5	#201	
04N/08E-12B01 M	150.6	10/22/84 11/09/84 12/05/84 01/22/85 02/19/85 03/11/85 04/10/85 05/06/85 06/17/85 07/19/85 08/12/85 09/16/85	85.0 85.2 85.1 85.4 85.4 85.6 85.8 NM-1 105.6 86.3 86.3 86.8	65.6 65.4 65.5 65.2 65.2 65.0 64.8 45.0 64.3 64.3 63.4	#201	04N/08E-16R12 M	82.4	10/18/84 01/14/85	14.4 15.1	68.0 67.3	#201	
04N/08E-12C01 M	113.1	10/25/84	83.6	49.5	#201	04N/08E-17J01 M	131.9	10/15/84 03/12/85	137.4 130.9	-5.5 1.0	5110	
04N/08E-12D01 M	113.1	10/25/84	83.6	49.5	#201	04N/08E-17C01 M	132.0	10/22/84 01/22/85	137.8 132.1	-5.8 -1.1	#201	
04N/08E-12E01 M	113.1	10/25/84	83.6	49.5	#201	04N/08E-18G12 M	122.4	10/22/84 01/22/85	131.3 129.2	-8.9 -2.8	#201	
04N/08E-12F01 M	113.1	10/25/84	83.6	49.5	#201	04N/08E-19Q02 M	111.4	10/22/84 01/22/85	117.9 117.0	-6.5 -6.4	#201	
04N/08E-20F11 M	75.7	10/18/84 01/18/85	15.4 14.4	60.2 59.1	#201	04N/08E-20F11 M	75.7	10/18/84 01/18/85	15.4 14.4	60.2 59.1	#201	
04N/08E-21M01 M	114.0	03/12/85	113.1	.9	5110	04N/08E-21M01 M	114.0	03/12/85	113.1	.9	5110	
04N/08E-21M13 M	117.0	10/18/84 01/18/85	118.0 115.7	-1.0 1.3	#201	04N/08E-21M13 M	117.0	10/18/84 01/18/85	118.0 115.7	-1.0 1.3	#201	

TABLE D (CONTINUED)
GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY	STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY
8 8-03 P-03.8	SAN JOAQUIN RIVER NORTH VALLEY FLOOR HU LOWER MIDDLE RIVER					8 8-03 P-03.8	SAN JOAQUIN RIVER NORTH VALLEY FLOOR HU LOWER MIDDLE RIVER				
04N/09E-22C01	126.0	10/14/84 03/12/85	63.7 57.7	62.3 58.3	5110	04N/09E-07E11	176.6	12/29/84 01/11/85 02/20/85	74.0 76.3 76.2	100.6 100.3 100.4	8201
04N/09E-22C15	145.4	10/22/84 01/16/85	137.4 135.4	7.5 9.6	8201			03/04/85 04/03/85 05/13/85 06/13/85 07/19/85 08/16/85 09/20/85	76.3 76.4 77.3 77.6 77.5 80.1 77.7	100.3 100.2 98.3 99.0 98.6 96.5 98.9	
04N/09E-22F11	128.3	10/22/84 11/08/84 12/05/84 11/16/85 02/19/85 03/04/85 04/00/85 05/13/85 06/06/85 07/09/85 08/05/85 09/11/85	122.4 122.1 121.3 120.4 119.6 119.4 119.0 121.1 121.0 123.1 124.4 122.8	5.5 6.2 7.0 7.9 8.7 9.9 9.4 7.2 6.4 5.2 3.9 5.5	8201	04N/09E-07F02	172.1	10/25/84 01/29/85	26.2 19.1	145.9 153.0	8201
04N/09E-22J11	146.2	10/19/84 01/18/85	140.4 137.8	4.4 8.4	8201	04N/09E-15001	199.9	10/24/84 01/28/85	16.4 15.9	182.5 183.0	8201
04N/09E-25L01	192.9	10/18/84 01/18/85	177.5 176.9	15.4 16.0	8201	04N/09E-15F11	191.3	10/24/84 11/14/84 12/07/84 01/20/85 02/20/85 03/03/85 04/03/85 05/16/85 06/10/85 07/15/85 08/14/85 09/12/85	65.1 64.6 75.1 64.5 64.9 66.3 63.2 64.9 62.0 62.3 60.2 59.6	176.2 125.7 116.2 126.5 126.4 125.0 126.1 126.1 129.3 129.0 131.1 131.7	8201
04N/09E-26A12	159.3	10/19/84 11/13/84 12/28/84 01/16/85 02/22/85 03/07/85 04/15/85 05/20/85 06/13/85 07/19/85 08/15/85 09/25/85	144.4 144.2 144.2 143.5 142.9 143.2 142.7 143.2 143.7 143.8 144.4 144.6	14.9 15.1 15.1 15.8 16.4 16.1 16.6 16.1 15.6 15.5 14.9 14.7	8201	04N/09E-16A01	180.1	10/24/84 01/28/85	-2 -3	160.3 160.4	8201
04N/09E-27J11	195.5	10/18/84 01/18/85	199.6 192.2	4.9 3.3	8201	04N/09E-16B11	185.1	10/24/84 01/29/85	1.8 2.7	183.3 182.4	8201
04N/09E-28E01	110.0	10/16/84 03/21/85	118.9 111.6	-8.9 -1.6	5050	04N/09E-16C01	190.3	10/24/84 01/29/85	5.7 7.2	184.6 183.1	8201
04N/09E-28H11	131.5	10/18/84 01/18/85	132.6 128.3	-1.1 3.2	8201	04N/09E-16C11	204.0	10/24/84 01/28/85	13.9 15.7	190.1 188.3	8201
04N/09E-28M12	111.9	10/18/84 01/18/85	117.4 113.2	-5.9 -1.3	8201	04N/09E-16D11	175.3	10/24/84 01/29/85	FLOW -2.0	177.3	8201
04N/09E-29E01	108.9	10/18/84 01/17/85	116.1 110.3	-7.2 -1.4	8201	04N/09E-16D12	169.7	10/24/84 01/29/85	6.3 5.5	163.4 164.2	8201
04N/09E-32A01	105.0	10/15/84 03/12/85	119.4 122.0	-14.5 -17.0	5110	04N/09E-16D13	191.4	10/24/84 11/14/84 12/07/84 01/20/85 02/20/85 03/12/85 04/08/85 05/16/85 06/10/85 07/15/85 08/14/85 09/12/85	3.6 4.1 4.3 5.1 5.0 5.2 4.4 4.0 4.6 4.5 6.7 7.4	187.8 187.3 187.1 186.3 186.4 186.2 187.0 187.4 186.8 186.6 184.7 183.9	8201
04N/09E-34E01	154.6	10/18/84 01/14/85	164.3 158.8	-5.7 -2	8201	04N/09E-16E14		10/24/84 01/29/85	FLOW FLOW		8201
04N/09E-34J11	162.6	10/18/84 01/18/85	169.7 167.2	-7.1 -4.6	8201	04N/09E-16E15		01/29/85	FLOW		8201
04N/09E-35P02	196.0	10/18/84 03/21/85	194.5 193.1	1.5 2.9	5050	04N/09E-16G02	181.2	10/24/84 11/14/84 12/07/84 01/20/85 02/20/85 03/14/85 04/08/85 05/16/85 06/10/85 07/15/85 08/14/85 09/12/85	22.2 22.0 21.6 22.6 22.8 22.6 22.6 21.4 20.0 21.1 21.5 21.7	159.0 159.2 159.6 158.6 158.6 160.4 159.8 161.2 160.1 159.7 159.5	8201
04N/09E-36P01	209.0	10/18/84 03/21/85	220.1 217.2	-11.1 -8.2	5050			10/24/84 11/14/84 12/07/84 01/20/85 02/20/85 03/14/85 04/08/85 05/16/85 06/10/85 07/15/85 08/14/85 09/12/85	22.2 22.0 21.6 22.6 22.8 22.6 21.4 20.0 21.1 21.5 21.7	159.0 159.2 159.6 158.6 158.6 160.4 159.8 161.2 160.1 159.7 159.5	8201
04N/09E-36P11	181.4	10/23/84 11/13/84 12/07/84 01/23/85 02/20/85 03/07/85 04/10/85 05/20/85 06/11/85 07/19/85 08/12/85 09/16/85	20.4 17.9 18.7 19.2 19.0 19.2 20.6 NM-1 NM-1 27.8 30.9 31.5	161.0 163.5 162.7 162.2 162.4 162.2 154.8 NM-1 NM-1 153.6 130.9 149.9	8201	04N/09E-17E11		10/24/84 11/14/84 12/07/84 01/20/85 02/20/85 03/12/85 04/08/85 05/16/85 06/10/85 07/15/85 08/14/85 09/12/85	FLOW FLOW FLOW FLOW FLOW FLOW FLOW FLOW FLOW FLOW FLOW		8201
04N/09E-06L11	125.6	10/22/84 11/30/84 12/11/84 01/22/85 02/19/85 03/11/85 04/10/85 05/17/85 06/17/85 07/09/85 08/12/85 09/16/85	94.4 NM-1 9.6 9.2 115.6 112.4 114.3 11.3 11.3 12.2 NM-1 NM-1 15.2	116.2 116.0 116.4 115.6 114.4 114.3 NM-1 113.4 NM-1 NM-1 NM-1 110.4	8201	04N/09E-17E12		10/24/84 11/14/84 12/07/84 01/20/85 02/20/85 03/12/85 04/08/85 05/16/85 06/10/85 07/15/85 08/14/85 09/12/85	FLOW FLOW FLOW FLOW FLOW FLOW FLOW FLOW FLOW FLOW FLOW		8201
04N/09E-07D12	154.3	10/24/84 11/14/84 12/28/84 01/11/85 02/20/85 03/08/85 04/06/85 05/13/85 06/13/85 07/14/85 08/16/85 09/20/85	59.3 59.6 59.8 59.7 59.9 60.0 60.2 60.7 61.4 61.6 62.0 62.2	94.0 95.7 95.5 95.6 95.4 95.3 95.1 94.8 93.9 93.7 93.3 93.1	8201	04N/09E-17E01	180.8	10/24/84 11/14/84 12/14/84 01/29/85	15.6 17.7 15.0 15.4	145.2 145.1 145.8 145.4	8201

TABLE D (CONTINUED)
GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY	STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY
8-03 8-03.8	SAN JOAQUIN WA NORTH VALLEY FLOOR WJ LOWER MOKELUNNE WA					8-03 8-03.8	SAN JOAQUIN WA NORTH VALLEY FLOOR WJ LOWER MOKELUNNE WA				
04N/09E-17E01 *	160.6	02/21/85	13.0	145.4	R201	04N/09E-19J11 *	173.1	04/16/85	109.3	63.4	R201
		03/12/85	13.0	145.4				05/16/85	111.0	62.1	
		04/08/85	13.0	145.4				06/17/85	NM-1		
		05/16/85	15.4	145.4				07/15/85	109.6	63.5	
		06/10/85	13.4	145.4				08/14/85	109.6	63.5	
		07/14/85	15.6	145.2				09/25/85	109.4	63.3	
		08/16/85	17.1	143.7							
		09/18/85	17.6	143.2							
04N/09E-18411 *	183.3	10/24/84	23.1	160.2	R201	04N/09E-20C11 *	197.2	10/26/84	72.6	124.6	R201
		11/14/84	25.2	156.1				11/14/84	75.4	121.8	
		12/14/84	23.1	160.2				12/28/84	NM-0		
		01/25/85	23.2	160.1				01/29/85	72.9	124.3	
		02/21/85	23.1	160.2				02/22/85	72.7	124.5	
		03/13/85	23.2	160.1				03/12/85	72.5	124.7	
		04/08/85	23.4	159.9				04/08/85	71.9	123.3	
		05/16/85	23.5	159.8				05/15/85	72.9	124.3	
		06/10/85	22.6	160.7				06/13/85	73.5	123.7	
		07/15/85	24.0	159.3				07/15/85	73.8	123.4	
		08/14/85	24.3	159.0				08/14/85	72.1	123.1	
		09/18/85	24.3	159.0				09/25/85	72.3	124.9	
04N/09E-18C01 *	173.2	10/24/84	34.3	138.9	R201	04N/09E-20M01 *		10/24/84	NM-0		R201
		11/14/84	34.3	138.9				01/29/85	NM-0		
		12/14/84	34.0	139.2				01/29/85	NM-0		
		01/23/85	34.5	138.7				04/24/85	NM-0		
		02/21/85	34.1	139.1				07/15/85	NM-0		
		03/13/85	34.4	138.5		04N/09E-21401 *	215.4	10/24/84	44.9	171.5	R201
		04/08/85	34.7	138.5				11/14/84	45.3	171.1	
		05/16/85	34.9	138.3				12/28/84	45.1	171.3	
		06/10/85	34.8	138.4				01/29/85	44.1	171.3	
		07/15/85	35.3	137.9				02/20/85	44.9	171.5	
		08/14/85	35.3	137.9				03/12/85	45.2	171.2	
		09/18/85	35.1	138.1				04/08/85	44.9	171.3	
								05/16/85	40.3	175.1	
								06/10/85	44.8	171.6	
								07/15/85	45.6	170.9	
								08/14/85	45.3	171.1	
								09/12/85	45.0	171.4	
04N/09E-18D11 *	177.6	10/24/84	122.3	55.3	R201	04N/09E-22J01 *	206.2	10/24/84	16.7	186.5	R201
		11/14/84	110.4	61.5				11/30/84	15.6	190.6	
		12/12/84	117.6	60.0				12/26/84	6.8	199.6	
		01/23/85	116.3	61.3				01/28/85	6.8	199.4	
		02/20/85	117.5	60.1				02/20/85	6.4	199.8	
		03/08/85	116.1	61.5				03/12/85	6.0	200.2	
		04/08/85	115.5	62.1				04/08/85	6.8	199.4	
		05/13/85	134.8	42.8				05/07/85	12.7	193.5	
		06/11/85	126.3	51.3				05/10/85	16.2	190.0	
		07/16/85	141.7	35.3				07/15/85	17.0	185.2	
		08/16/85	144.2	33.4				08/14/85	19.4	186.8	
		09/25/85	145.0	32.6				09/12/85	18.7	187.5	
04N/09E-18D12 *	179.0	10/24/84	109.7	69.3	R201	04N/09E-24E11 *	205.5	10/24/84	145.8	149.7	R201
		11/14/84	NM-1					01/29/85	143.6	151.9	
		12/12/84	106.0	73.0		04N/09E-24K13 *	319.6	10/24/84	179.3	144.3	R201
		01/23/85	105.4	73.6				11/26/84	170.5	149.1	
		02/20/85	NM-1					12/07/84	166.6	153.0	
		03/08/85	NM-1					01/25/85	164.7	152.9	
		04/08/85	NM-1					02/20/85	151.5	158.1	
		05/13/85	NM-1					03/12/85	164.3	153.3	
		06/11/85	NM-1					04/08/85	167.5	152.1	
		07/16/85	116.9	62.1				05/07/85	167.4	152.1	
		08/16/85	137.1	41.9				06/10/85	169.0	151.6	
		09/25/85	NM-1					07/14/85	175.7	143.9	
								08/14/85	177.3	142.3	
								09/12/85	175.2	144.4	
04N/09E-18E01 *	158.2	10/24/84	106.0	52.2	R201	04N/09E-24N15 *	283.6	10/24/84	133.4	150.2	R201
		11/14/84	104.9	53.3				01/28/85	131.7	151.9	
		12/28/84	105.8	52.4		04N/09E-26F11 *	230.6	10/24/84	124.3	106.3	R201
		01/25/85	104.2	56.0				01/28/85	117.7	112.9	
		02/22/85	NM-1								
		03/13/85	NM-1								
		04/13/85	103.6	54.6							
		05/16/85	103.7	54.5							
		06/12/85	104.1	54.1							
		07/10/85	NM-1								
		08/09/85	101.0	56.3							
		09/25/85	102.0	56.2							
04N/09E-18H11 *	186.0	10/24/84	29.1	158.9	R201	04N/09E-28C02 *	313.4	10/24/84	132.4	180.6	R201
		11/29/85	29.1	158.9				11/13/84	132.4	180.6	
								12/06/84	132.9	180.9	
								01/28/85	132.1	181.3	
								02/21/85	132.2	181.2	
								03/12/85	132.2	181.2	
								04/15/85	131.7	181.7	
								05/15/85	NM-1		
								06/13/85	132.2	181.2	
								07/16/84	137.4	180.9	
								08/15/85	NM-1		
								09/25/85	132.7	180.7	
04N/09E-18H11 *	155.1	10/24/84	112.7	42.4	R201	04N/09E-31M01 *	293.0	10/15/84	234.7 (31)	15.3	5110
		11/16/84	111.9	43.2				03/12/85	NM-2		
		12/28/84	111.4	43.3		05N/06E-36C03 *	56.0	10/15/84	74.9	-20.9	5090
		01/28/85	110.5	44.6				03/22/85	70.9	-14.9	
		02/22/85	110.0	45.1		05N/05E-36901 *	63.1	10/14/84	135.0 (6)	-72.8	5110
		03/13/85	109.4	45.5				03/14/85	NM-0 (6)	-17.8	
		04/25/85	109.2	45.9							
		05/16/85	109.2	45.9		05N/07E-31J01 *	71.5	10/14/84	104.5	-33.6	5110
		06/13/85	109.3	45.8				03/14/85	91.5	-20.0	
		07/19/85	109.7	44.4							
		08/15/85	108.5	46.5		05N/09E-21E11 *	302.0	10/23/84	94.1	207.9	R201
		09/25/85	108.5	46.6				11/23/84	94.3	204.0	
								12/37/84	94.9	209.1	
								01/25/85	94.2	207.4	
								02/20/85	94.3	207.7	
								03/11/85	94.0	204.0	
								04/23/85	94.0	204.0	
								05/17/85	95.6	206.4	
								06/17/85	95.4	206.4	
								07/12/85	94.1	207.9	
04N/09E-19J11 *	173.1	10/24/84	109.7	63.4	R201						
		11/16/84	109.5	63.6							
		12/28/84	110.6	62.8							
		01/29/85	111.0	62.1							
		02/22/85	NM-1								
		03/13/85	109.5	63.6							

TABLE D (CONTINUED)

GROUND WATER LEVELS AT WELLS											
STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY	STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY
B-03 R-03.C	SAN JOAQUIN NR NORTH VALLEY FLOOR HU LOWER MOLEMANE NA					R-03 R-03.C	SAN JOAQUIN NR NORTH VALLEY FLOOR HU LOWER CALAVERAS NA				
05N/09E-21E11 M	302.0	08/16/85 09/20/85	99.5 93.7	206.5 208.3	R201	01N/07E-01M02 M	50.0	03/13/85	69.0	-19.0	5110
05N/09E-22C11 M	318.7	10/23/84 01/23/85	98.4 98.6	220.3 220.1	R201	01N/07E-02G01 M	50.0	12/03/84 04/10/85	88.5 (R) 71.5	-18.5 -21.5	5110
05N/09E-22P11 M	273.7	10/23/84 01/21/85	43.7 42.0	230.0 231.7	R201	01N/07E-03L01 M	43.0	12/03/84 04/10/85	NM=0 64.0	-21.0	5110
05N/09E-22R11 M	322.1	10/23/84 11/15/84 12/07/84 01/25/85 02/20/85 03/11/85 04/03/85 05/17/85 06/17/85 07/12/85 08/16/85 09/20/85	83.2 81.8 82.8 81.1 81.2 80.9 82.4 81.4 81.5 84.4 81.4 84.7	238.9 240.3 239.3 241.0 240.9 241.2 239.7 240.7 240.6 237.7 240.7 237.4	R201	01N/07E-03M01 M	41.0	12/03/84 04/10/85	72.0 54.0	-31.0 -13.0	5110
						01N/07E-04P03 M	35.4	03/14/85	62.4	-27.0	5110
						01N/07E-04R01 M	39.0	12/03/84 04/24/85	57.0 57.0 (R)	-14.0 -16.0	5110
						01N/07E-06E01 M	22.5	03/14/85	58.0	-35.5	5110
						01N/07E-07E01 M	25.0	10/30/84 03/21/85	50.0 (R) 48.0	-25.0 -23.0	5001
05N/09E-26D11 M	321.7	10/23/84 11/15/84 12/07/84 01/25/85 02/20/85 03/11/85 04/03/85 05/17/85 06/12/85 07/12/85 08/16/85 09/20/85	76.0 81.2 (R) 74.0 79.7 74.1 73.9 74.4 74.7 74.6 75.1 75.2 74.4	245.7 246.3 246.8 242.0 247.6 247.8 247.3 247.0 247.1 246.6 246.5 247.3	R201	01N/07E-07F01 M	25.8	10/15/84 03/12/85	49.8 44.9	-24.0 -19.1	5050
						01N/07E-08R01 M	30.0	12/03/84 04/04/85	56.0 53.0	-26.0 -23.0	5110
						01N/07E-08R02 M		10/31/84 03/14/85	NM=7 80.0	-48.5	5001 5110
						01N/07E-09E04 M		12/03/84 04/24/85	NM=4 NM=4		5110
						01N/07E-09M01 M	39.0	12/03/84 04/04/85	59.4 62.5	-23.5	5110
05N/09E-28E12 M	297.1	10/23/84 01/25/85	62.9 62.4	234.2 234.7	R201	01N/07E-10G01 M	39.0	12/03/84 04/04/85	59.0 61.0	-20.0 -22.0	5110
05N/09E-26P11 M	345.4	10/23/84 11/15/84 12/07/84 01/25/85 02/20/85 03/11/85 04/03/85 05/17/85 06/12/85 07/12/85 08/16/85 09/20/85	92.8 85.3 82.6 79.0 77.6 77.2 77.4 75.2 97.6 97.9 92.4 92.8	252.4 260.1 262.8 266.4 267.8 268.2 268.0 260.2 247.8 247.5 253.0 252.6	R201	01N/07E-10G01 M		12/03/84 04/04/85	66.0 65.5	-23.0 -22.5	5110
						01N/08E-02R01 M	84.0	10/01/84 03/20/85	NM=7 104.1	-20.1	5001 5050
						01N/08E-02J01 M		10/31/84 03/20/85	NM=4 106.5		5050
						01N/08E-03P01 M	60.0	10/12/84 03/13/85	120.0 (R) 111.0 (R)	-40.0 -31.0	5110
05N/09E-28K12 M	312.3	10/23/84 11/16/84 12/07/84 01/25/85 02/20/85 03/11/85 04/03/85 05/17/85 06/17/85 07/12/85 08/16/85 09/20/85	87.2 87.0 86.5 86.5 86.0 86.8 86.8 87.0 87.5 87.5 86.8 87.6	225.1 225.3 225.8 225.8 225.4 225.5 225.5 225.3 224.8 225.3 224.7	R201	01N/08E-04E01 M	69.5	10/12/84 04/03/85	103.0 (R) 93.0 (R)	-33.5 -23.5	5110
						01N/09E-06M01 M		10/01/84 10/12/84 11/6.5	NM=7 NM=7 145.5 (R)		5001 5110
						01N/09E-17R02 M	105.0	10/16/84 03/19/85	123.9 112.1	-16.9 -7.1	5050
						02N/08E-35002 M	17.5	10/15/84 03/12/85	39.1 35.1	-21.6 -17.6	5050
05N/09E-31L11 M	235.0	10/23/84 11/16/84 12/28/84 01/23/85 02/20/85 03/15/85 04/10/85 05/20/85 06/14/85 07/19/85 08/12/85 09/25/85	97.7 97.6 96.9 97.4 97.1 97.1 97.6 97.6 97.6 97.6 98.0 95.4	137.3 137.4 136.1 137.6 137.9 137.9 137.4 137.4 137.4 137.0 137.0 136.6	R201	02N/07E-01R01 M	73.2	10/10/84 01/14/85	97.0 92.3	-23.8 -19.1	6201
						02N/07E-10J11 M	55.6	10/10/84 01/14/85	83.8 80.1	-24.2 -24.5	6201
						02N/07E-11F01 M	58.0	10/22/84 03/25/85	92.0 (R) 82.0 (R)	-24.0 -24.0	5110
						02N/07E-12A03 M	72.2	10/16/84 01/25/85 02/26/85 03/25/85 04/25/85 05/25/85 06/25/85 07/25/85 08/22/85 09/24/85	96.9 90.4 89.2 88.4 90.1 90.1 101.8 105.0 111.8 102.0	-24.7 -14.2 -17.0 -16.2 -17.9 -20.6 -32.8 -39.6 -29.6	5050
05N/09E-35P11 M	266.4	10/23/84 11/15/84 12/07/84 01/24/85 02/20/85 03/11/85 04/03/85 05/17/85 06/12/85 07/12/85 08/16/85 09/20/85	51.9 51.7 51.3 51.2 50.6 50.7 50.3 50.3 49.8 49.8 49.6 49.8	214.5 214.7 215.1 215.2 215.0 215.7 216.1 216.1 216.6 216.8 216.8 216.8	R201	02N/07E-14P01 M	57.3	03/15/85	78.8	-21.5	5110
						02N/07E-15C01 M	51.7	10/22/84 03/25/85	89.0 83.0	-37.3 -31.3	5110
						02N/07E-16L01 M	46.2	10/22/84 03/25/85	88.5 (R) 79.5 (R)	-42.3 -33.3	5110
						02N/07E-16M01 M	44.0	10/30/84 01/11/85	78.8 68.6	-31.8 -24.6	R201
						02N/07E-20M02 M	35.0	10/22/84 03/25/85	73.0 (R) 68.5 (R)	-38.0 -33.5	5110
						02N/07E-21G11 M	46.2	10/30/84 01/11/85	77.0 72.9	-30.8 -26.7	6201
						02N/07E-21K02 M	41.0	12/04/84 04/02/85	67.0 66.0	-22.0 -21.0	5110
01N/07E-01A02 M	62.0	12/03/84 04/10/85	81.5 82.4	-29.5 -20.5	5110	02N/07E-21N01 M	40.0	12/24/84 04/02/85	79.0 (R) 70.0 (R)	-39.0 -30.0	5110
01N/07E-01J02 M	60.0	12/03/84 04/10/85	89.0 89.5	-29.0 -23.5	5110	02N/07E-22M01 M		12/04/84 04/02/85	NM=4 NM=4		5110

TABLE D (CONTINUED)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY	STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY
B R-03 R-03.C	SAN JOAQUIN NR NORTH VALLEY FLOOR HU LOWER CALAVERAS NA					B R-03 R-03.C	SAN JOAQUIN NR NORTH VALLEY FLOOR HU LOWER CALAVERAS NA				
02N/07E-23901 M	57.0	12/04/84 04/02/85	80.0(8) 80.0(8)	-23.0 -23.0	5110	02N/08E-19C03 M	67.3	03/15/85	RR.9	-21.6	5110
02N/07E-23J02 M	59.6	03/15/85	89.7	-30.1	5110	02N/08E-20F01 M	73.0	03/15/85	104.8	-31.8	5110
02N/07E-24801 M	65.4	03/15/85	87.5	-22.1	5110	02N/08E-21901 M	79.9	10/31/84 03/15/85	NM-7 100.1	-29.2	5001 5110
02N/07E-24J01 M	69.0	12/04/84 04/02/85	97.0(8) 100.0(8)	-32.0 -35.0	5110	02N/08E-24901 M	125.0	03/15/85	150.4	-24.4	5110
02N/07E-24001 M	62.5	12/04/84 04/02/85	87.5 87.5	-25.0 -25.0	5110	02N/08E-30H01 M	69.4	03/15/85	99.9(8)	-30.5	5110
02N/07E-26H03 M		12/04/84 04/02/85	NM-3 NM-3		5110	02N/08E-32L02 M	69.5	03/15/85	81.7	-11.7	5110
02N/07E-26N01 M	50.3	03/15/85	76.5	-24.2	5110	02N/08E-33E01 M	75.0	03/15/85	103.0	-28.0	5110
02N/07E-26R01 M	56.0	12/04/84 04/02/85	90.0(8) 102.0(8)	-41.0 -46.0	5110	02N/08E-34E01 M	82.6	10/12/84 03/13/85	120.7(8) 112.7(8)	-37.1 -30.1	5110
02N/07E-27D01 M	46.7	03/15/85	85.2	-38.5	5110	02N/08E-36L01 M	97.2	10/22/84 11/22/84 12/26/84 01/25/85 02/22/85 03/25/85 04/25/85 05/24/85 06/24/85 07/25/85 08/23/85 09/23/85	122.9 121.2 119.3 117.9 116.4 115.0 114.2 117.8 119.8 122.6 124.5 124.9	-25.7 -24.0 -22.1 -20.7 -19.2 -17.8 -17.0 -20.4 -22.6 -25.4 -27.3 -27.7	5050
02N/07E-27L01 M	47.0	12/04/84 04/02/85	66.0(1) NM-9	-19.0	5110	02N/09E-03401 M	150.0	03/15/85	66.9(6)	83.1	5110
02N/07E-28X02 M	42.0	12/04/84 04/02/85	92.0 86.0	-50.0 -44.0	5110	02N/09E-04H01 M	158.1	03/15/85	74.0(6)	79.1	5110
02N/07E-28N04 M	36.0	03/15/85	59.5	-21.5	5110	02N/09E-05H01 M	132.2	10/31/84 03/15/85	NM-7 116.5	15.7	5001 5110
02N/07E-28P01 M	39.0	12/04/84 04/02/85	66.0 63.0	-27.0 -24.0	5110	02N/09E-05N02 M	125.1	10/18/84 03/20/85	121.0 119.2	5.1 6.9	5050
02N/07E-29R01 M		12/04/84 04/02/85	NM-3 NM-3		5110	02N/09E-07G02 M	117.5	03/15/85	131.0(6)	-13.5	5110
02N/07E-29H02 M	34.0	12/04/84 04/02/85	55.0 52.0	-21.0 -18.0	5110	02N/09E-08N01 M	141.6	03/15/85	152.0(8)	-10.4	5110
02N/07E-30E01 M	28.0	10/19/84 03/25/85	66.5 64.5	-38.5 -36.5	5110	02N/09E-09001 M	132.8	03/15/85	123.8(8)	9.2	5110
02N/07E-30H01 M	32.5	12/04/84 04/02/85	54.0(4) NM-1	-21.5	5110	02N/09E-11401 M	251.0	03/15/85	170.0(3)	83.0	5110
02N/07E-31M01 M	27.2	10/19/84	52.0	-24.8	5110	02N/09E-18001 M	107.1	03/15/85	121.7(8)	-14.6	5110
02N/07E-32J02 M	35.0	12/04/84 04/02/85	54.0 53.0	-19.0 -18.0	5110	02N/09E-22802 M	171.0	03/20/85	144.9	26.1	5050
02N/07E-32M02 M	30.0	12/04/84 04/02/85	43.0(8) 44.0(8)	-13.0 -14.0	5110	03N/08E-32P01 M	85.0	10/18/84 03/20/85	110.3 101.3	-25.3 -16.3	5050
02N/07E-32P01 M		03/15/85	NM-7		5110	03N/08E-19NC1 M	148.0	03/21/85	186.6	-4.6	5050
02N/07E-33H01 M	41.0	03/15/85	61.0(8)	-20.0	5110	03N/08E-25901 M	169.8	03/15/85	73.8	116.0	5110
02N/07E-33L01 M	38.0	12/04/84 04/01/85	57.0(8) 52.0(8)	-19.0 -14.0	5110	03N/08E-33J01 M	140.0	03/15/85	73.9	66.1	5110
02N/07E-34E01 M		12/04/84	NM-4		5110	03N/08E-36G01 M	160.4	03/15/85	76.2	104.2	5110
02N/07E-34R01 M	47.0	12/03/84 04/10/85	63.0 64.0	-16.0 -17.0	5110	R-03.0	DUCK-LITTLE JOHNS NA				
02N/07E-35L01 M	49.8	03/15/85	74.9	-25.1	5110	01N/06E-14003 M	14.3	10/31/84 10/29/84 11/27/84 12/26/84 01/24/85 02/22/85 03/25/85 04/25/85 05/24/85 06/24/85 07/25/85 08/23/85 09/23/85	NM-7 30.3 29.6 28.7 28.4 28.0 27.5 27.4 27.9 28.6 30.0 31.3 31.7	-16.0 -15.3 -14.4 -14.1 -13.7 -13.7 -13.1 -13.6 -14.3 -14.7 -17.0 -17.4	5001 5050
02N/07E-36P02 M	54.0	10/18/84 01/25/85 02/26/85 03/25/85 04/25/85 05/23/85 06/23/85 07/25/85 08/22/85 09/24/85	85.3 80.1(4) 77.7(4) 78.1 77.6 84.8 85.6 89.1 91.2 90.0	-31.3 -26.2 -23.7 -24.1 -23.6 -30.4 -31.6 -35.1 -37.2 -36.0	5050	01N/06E-23D01 M	9.0	10/31/84 03/13/85	NM-7 20.4	-11.4	5001
02N/08E-03G02 M	108.8	10/22/84 03/25/85	116.5(4) NM-1	-7.7	5110	01N/06E-23J01 M	11.8	03/13/85	22.7	-10.9	5050
02N/08E-04C01 M	92.0	10/22/84 03/25/85	135.5(8) 118.5(8)	-43.5 -26.5	5110	01N/06E-25H02 M		10/31/84 03/13/85	NM-7 NM-0		5001
02N/08E-08H01 M		10/28/84 04/15/85	NM-3 93.7(8)		5110	01N/07E-09003 M	38.0	12/23/84 04/24/85	47.0 51.0	-29.0 -23.0	5110
02N/08E-09G02 M	87.0	10/22/84 03/25/85	112.0 110.0(3)	-25.0 -23.0	5110	01N/07E-11L01 M	50.0	12/23/84 04/10/85	45.0(8) 70.5(8)	-15.0 -20.5	5110
02N/08E-10H02 M	105.4	10/22/84 03/25/85	156.5 151.5(3)	-51.1 -46.1	5110	01N/07E-11M01 M	46.3	10/12/84 03/13/85	88.0(3) 85.0(3)	-41.7 -38.7	5110
02N/08E-12C02 M	109.3	03/15/85	114.0	-44.7	5110	01N/07E-14L01 M	47.0	10/01/84 03/19/85	NM-7 76.5	-29.5	5001 5050
02N/08E-13K01 M	105.6	03/15/85	144.2	-38.6	5110	01N/07E-15H02 M	39.0	10/12/84 03/13/85	98.0 88.0(4)	-60.0 -28.0	5110
02N/08E-14C01 M	94.4	03/15/85	115.4(6)	-21.0	5110	01N/07E-19G01 M	23.5	10/12/84 03/13/85	74.4 45.5	-51.0 -22.0	5110
02N/08E-15M02 M	84.9	03/15/85	116.1	-31.2	5110	01N/07E-20G01 M	29.0	10/12/84 03/13/85	89.0 88.0(8)	-60.0 -31.0	5110
02N/08E-16M01 M	80.5	10/22/84 04/15/85	NM-3 98.8(8)	-18.1	5110						
02N/08E-18C01 M	68.9	10/22/84 03/25/85	106.9(8) 99.4(8)	-38.0 -30.5	5110						

TABLE D (CONTINUED)

GROUND WATER LEVELS AT WELLS											
STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY	STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY
R-03 R-03.0	SAN JOAQUIN HR NORTH VALLEY FLOOR HU DUCK-LITTLEJOHNS HA					R-03 R-03.0	SAN JOAQUIN HR NORTH VALLEY FLOOR HU DUCK-LITTLEJOHNS HA				
01N/07E-21P01 M	37.0	10/17/84 04/01/85	NM-0 89.0	-32.0	5110	01N/09E-21J01 M	114.0	10/15/84 03/19/85	116.3 108.5	-2.3 5.5	5050
01N/07E-23H02 M	51.0	10/17/84 01/24/84 02/26/85 03/25/85 04/25/85 04/23/85 05/24/85 07/25/85 08/22/85 09/23/85	92.8 88.4 (4) 85.8 84.9 (4) NM-1 88.4 (4) 91.2 (4) 93.4 94.8 95.6	-41.8 -17.4 -35.8 -33.9 -37.6 -40.2 -42.4 -44.8 -44.6	5050	01N/09E-22G02 M	119.0	10/12/84 03/14/85	149.4 132.4	-31.4 -14.4	5110
						01N/09E-23J01 M	125.0	10/16/84 03/25/85 04/20/85	108.4 NM-0 104.3	16.2 20.7	5001 5110
						01N/09E-29A01 M		10/17/84 03/14/85	NM-3 NM-0		5001
01N/07E-24A01 M	58.4	10/11/84 03/14/85	120.5 (8) 118.0 (8)	-62.1 -59.6	5110	01N/09E-30C05 M	95.0	10/11/84 03/14/85	125.5 (5) 105.5 (4)	-29.5 -9.5	5110
01N/07E-26H03 M	50.0	10/12/84 03/13/85	103.5 84.0	-53.5 -34.0	5110	01N/09E-35D01 M	165.0	10/16/84 03/19/85	191.6 140.5	13.4 24.5	5050
01N/07E-27H02 M		10/12/84 03/13/85	NM-3 78.0 (6)	-34.0	5110	01N/09E-36P01 M	147.2	10/11/84 03/15/85	172.7 116.7	24.5 30.5	5110
01N/07E-28R01 M	44.0	10/01/84 03/14/85	NM-7 80.4	-24.4	5001 5050	02N/09E-28N01 M	179.5	10/12/84 04/08/85	NM-0 195.1	-15.6	5110
01N/07E-32A03 M	29.5	10/01/84 03/18/85	NM-7 48.3	-18.4	5001 5050	02N/09E-32001 M	154.2	03/20/85	163.6	-9.4	5050
01N/07E-35H01 M	49.1	10/12/84 03/13/85	105.6 (6) 97.6 (6)	-56.5 -46.5	5110	01S/07E-01J01 P	53.4	10/12/84 03/13/85	96.0 (6) 76.0 (6)	-42.6 -22.6	5110
01N/08E-09L01 M	71.0	10/16/84 03/19/85	112.7 102.0	-41.7 -31.0	5050	01S/07E-03A01 P	43.1	10/12/84 03/13/85	71.5 50.0	-28.4 -15.9	5110
01N/08E-13J01 M	94.8	10/12/84 03/14/85	123.5 121.5	-27.7 -26.7	5110	01S/07E-05A01 M	24.9	10/11/84 03/12/85	43.4 30.4	-14.5 -10.5	5110
01N/08E-13P02 M	90.5	10/18/84 03/19/85	122.3 107.6	-31.8 -17.1	5050	01S/07E-08H02 M	23.5	10/11/84 03/12/85	NM-4 29.5	-6.0	5110
01N/08E-15J01 M	82.0	10/18/84 01/24/85 02/22/85 03/25/85 04/25/85 05/24/85 06/24/85 07/25/85 08/23/85 09/23/85	121.0 (4) 112.2 109.7 100.7 106.8 (4) 110.7 114.6 117.8 121.2 124.5 (4)	-39.0 -30.2 -27.7 -24.7 -24.8 -28.7 -32.6 -35.8 -39.2 -42.5	5050	01S/07E-09D01 M	35.0	10/25/84 03/14/85	32.9 31.4	2.1 3.2	5050
01N/08E-16P01 M	73.0	10/01/84 03/19/85	NM-7 100.6	-27.6	5001 5050	01S/07E-10A01 M	41.0	10/17/84 01/24/85 02/22/85 03/25/85 04/25/85 05/30/85 06/24/85 07/25/85 09/23/85	47.2 51.2 50.0 49.2 50.4 50.0 56.7 62.3 40.5	-16.2 -10.2 -9.0 -4.2 -9.5 -17.0 -17.7 -21.3 -19.5	5050
01N/08E-17J01 M		10/14/84	NM-4		5110	01S/07E-12H01 M	51.0	10/12/84 03/13/85	75.3 64.3	-24.3 -17.3	5110
01N/08E-26A02 M	88.7	10/18/84 04/01/85	NM-4 115.4	-26.7	5110	01S/07E-13J01 M	48.0	10/11/84 03/12/85	53.0 46.0	-5.0 -1.0	5110
01N/08E-27R02 M	78.0	10/11/84 03/14/85	116.0 101.0	-38.0 -23.0	5110	01S/08E-06D01 M	55.4	10/12/84 03/13/85	98.5 90.5	-43.1 -25.1	5110
01N/08E-28C01 M	71.0	10/01/84 03/18/85	NM-7 96.0	-25.0	5001 5050	01S/08E-09A01 M	71.0	10/12/84 03/13/85	114.0 100.5	-43.0 -29.5	5110
01N/08E-29H02 M	54.1	10/11/84 03/14/85	110.1 116.1	-46.0 -52.0	5110	01S/08E-11F01 M	42.0	10/12/84 03/15/85	108.2 103.7	-28.2 -23.7	5110
01N/08E-30A01 M	57.0	10/01/84 03/14/85	NM-7 88.7	-31.7	5001 5050	01S/08E-15A01 M	73.5	13/17/84 03/15/85	88.5 41.2	-15.0 -7.7	5050
01N/08E-33H01 M	71.6	10/11/84 03/14/85	112.5 (6) 104.5 (6)	-40.9 -34.9	5110	01S/08E-29H01 M		10/11/84 03/12/85	NM-4 NM-4		5110
01N/08E-35P02 M	82.0	10/11/84 03/14/85	121.0 (6) 101.0	-39.0 -19.0	5110	01S/08E-30C02 M	52.0	10/11/84 03/12/85	37.5 36.5	14.5 14.5	5110
01N/08E-35F01 M	87.0	10/10/84 03/14/85	126.0 120.0	-39.0 -33.0	5110	01S/09E-02D01 M	146.0	10/11/84 03/15/85	117.5 111.5	28.5 34.5	5110
01N/09E-01C01 M	191.0	10/12/84 03/13/85	176.7 165.7	14.3 25.3	5110	01S/09E-02H01 M	162.0	10/11/84 03/15/85	128.7 120.7	33.3 41.3	5110
01N/09E-05P01 M	130.5	03/20/85	153.1	-10.6	5050	01S/09E-05P01 M	105.7	10/12/84 03/15/85	170.0 (8) 97.0 (8)	34.7 46.7	5110
01N/09E-05J01 M	153.0	10/12/84 03/14/85	142.5 (6) 177.5 (6)	-24.5	5110	01S/09E-07N01 M	94.2	10/12/84 03/15/85	87.4 (3) 84.5 (3)	8.7 7.7	5110
01N/09E-06H01 M	116.0	10/01/84 03/20/85	NM-7 151.1	-15.1	5001 5050	01S/09E-09P01 M	127.6	10/12/84 03/15/85	134.0 195.0	23.4 22.6	5110
01N/09E-09A01 M	144.0	10/16/84	143.8	-7.4	5050	01S/09E-11J02 P	132.0	10/10/84 03/15/85	87.4 84.8	44.2 46.2	5110
01N/09E-11A02 M	142.0	10/12/84 03/14/85	120.0 (6) 115.0 (6)	22.0 27.0	5110	01S/09E-11P03 M	103.8	10/12/84 03/15/85	104.8 102.4	-1.0 1.0	5110
01N/09E-11A02 M	120.0	10/12/84 03/14/85	NM-0 114.0 (4)	6.0	5110	01S/09E-19G02 M	97.5	10/11/84 03/10/85	73.5 90.4	24.0 7.0	5110
01N/09E-17H01 M	138.0	10/12/84 04/04/84	NM-7 112.4 (4)	-9.4	5110						
01N/09E-17H01 M	102.2	10/12/84 04/04/84	122.7 119.7	-20.4 -11.5	5110						
01N/09E-19C01 M	94.4	10/12/84 03/14/85	143.5 142.0	-45.0 -43.4	5110						

TABLE D (CONTINUED)
GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY	STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY
G-08 G-08.4	NORTH LA MONTAN NB LAKE TAHOE HU SOUTH TAHOE HA					G-08 G-08.4	NORTH LA MONTAN NB SUSANVILLE HD HEALONG HA				
11M/18E-09M01 M	6396.1	05/22/85 09/17/85	17.1 21.4	6379.0 6374.7	5050	21M/18E-19J01 M	4920.0	10/33/84 03/26/85	13.7 11.0	4864.3 4879.0	5050
11M/18E-17E01 M	6475.0	05/22/85 09/17/85	9.1 15.9	6465.9 6459.1	5050	22M/17E-26M01 M	4900.0	10/33/84 03/26/85	NM-3 34.4	4951.2	5050
12M/18E-02C01 M	6274.3	05/22/85 09/17/85	36.2 37.1	6238.1 6237.2	5050	22M/17E-26J01 M	4980.0	10/33/84 03/26/85	68.2 (1) 29.6	4911.8 4900.4	5050
12M/18E-02C09 M	6291.1	05/22/85 09/17/85	69.2 71.0	6221.9 6220.1	5050	23M/17E-02N01 M	4570.0	10/33/84 03/26/85	75.9 NM-9	4544.5	5050
12M/18E-03A01 M	6270.4	05/22/85 09/16/85	64.5 62.7	6205.9 6207.7	5050	25M/17E-20R01 M	4289.5	10/34/84 04/35/85	23.6 20.1	4256.9 4260.4	5050
12M/18E-05A02 M	6239.7	05/22/85 09/16/85	8.3 8.2	6231.4 6231.5	5050	26M/16E-C3D02 M	4090.0	10/04/84 04/35/85	36.6 35.2	4041.4 4044.8	5050
12M/18E-05C02 M	6257.6	05/22/85 09/16/85	21.5 22.6	6236.1 6235.0	5050	26M/16E-G0H01 M	4050.0	10/05/84 03/26/85	27.4 (1) 26.2	4022.2 4023.8	5050
12M/18E-05J01 M	6271.0	05/22/85 09/16/85	35.2 36.1	6235.8 6234.9	5050	27M/15E-29P01 M	3987.0	10/02/84 03/26/85	30.7 2.0	3956.3 3945.0	5050
12M/18E-09O03 M	6298.0	05/22/85 09/16/85	65.2 63.4	6232.8 6234.6	5050	27M/16E-30M01 M	3994.0	10/34/84 04/35/85	5.8 3.7	3993.2 3995.3	5050
12M/18E-20M02 M	6280.0	05/22/85 09/16/85	9.9 (1) 8.0	6279.1 6272.0	5050	G-08.8	SUSAN RIVER HA				
12M/18E-21D01 M	6283.0	05/22/85 09/16/85	NM-1 19.8	6263.2	5050	28M/13E-11P01 M	4065.6	10/32/84 04/04/85	24.7 12.9	4043.9 4055.7	5050
12M/18E-29L01 M	6340.0	05/22/85 09/17/85	17.9 21.4	6322.1 6318.6	5050	28M/13E-14O02 M	4105.3	10/32/84 03/26/85	37.0 28.2	4068.8 4077.1	5050
13M/17E-33G01 M	6278.6	05/22/85 09/16/85	27.6 29.1	6251.0 6249.5	5050	28M/14E-18K01 M	4003.1	10/32/84 03/26/85	8.9 3.5	3994.2 3994.6	5050
13M/18E-27K01 M	6276.7	05/22/85 09/16/85	30.6 31.0	6246.1 6245.7	5050	29M/12E-16M02 M	4240.0	10/34/84 04/04/85	14.9 NM-5	4225.1	5050
13M/18E-32N02 M	6230.0	05/22/85 09/16/85	10.9 11.6	6219.1 6218.4	5050	29M/13E-02L01 M	4063.4	10/03/84 03/27/85	5.8 2.5	4063.6 4066.8	5050
13M/18E-33M01 M	6253.1	05/22/85 09/16/85	27.7 28.6	6225.4 6224.5	5050	29M/13E-07O01 M	4094.8	10/03/84 03/27/85	7.0 3.0	4091.8 4095.8	5050
13M/18E-33R05 M		05/22/85 09/17/85	NM-2 NM-2		5050	29M/13E-14J01 M	4136.0	10/33/84 03/28/85	65.0 61.5	4071.0 4074.5	5050
13M/18E-34M02 M	6262.8	05/22/85 09/16/85	26.3 29.8	6236.5 6233.0	5050	29M/14E-20A02 M	4050.0	10/03/84 03/27/85	12.8 10.8	4037.2 4039.2	5050
						29M/14E-22O01 M	4022.8	10/33/84 03/26/85	15.7 7.6	4007.1 4015.2	5050
						29M/15E-21N01 M	4000.0	10/32/84 03/27/85	14.4 6.7	3985.6 3993.3	5050
						G-08.0	SNOW STORM MOUNTAIN HA				
						31M/15E-26N01 M	4445.0	10/35/84	131.5	4313.5	5050

TABLE D (CONTINUED)

GROUND WATER LEVELS AT WELLS

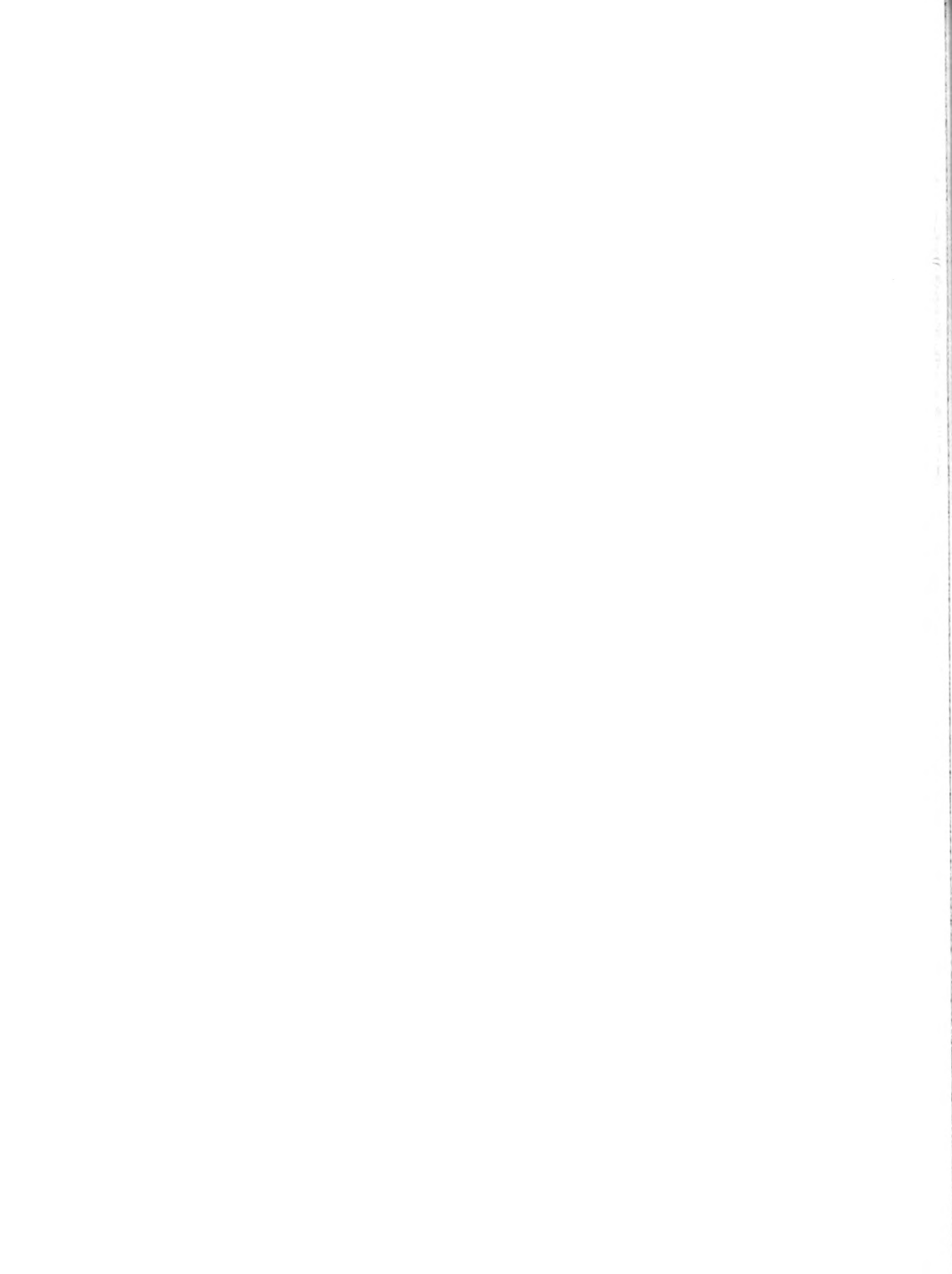
STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY	STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY
E 6-10	NORTH LAMONTAN WA MADELINE PLAINS HI					E 6-12 G-12.4	NORTH LAMONTAN WA SURPRISE VALLEY HU PARE CREEK WA				
34N/13E-26J02 "	3296.0	10/05/84 03/02/85	47.5 47.2	5249.3 5244.8	5050	43N/16E-25P01 "	4590.0	10/17/84 03/26/85	41.9 35.0(9)	4546.1 4555.0	5050
						40N/16E-36G02 "	4624.0	10/17/84 03/25/85	71.6 63.4	4553.4 4561.6	5050
						40N/15E-36P02 "	4590.0	10/17/84 03/26/85	51.4 44.6(9)	4538.5 4545.4	4950
						40N/17E-19W02 "	4534.0	10/17/84 03/26/85	21.4 -2	4513.6 4531.1	5050
						40N/17E-31E02 "	4574.0	10/17/84 03/26/85	34.3 44-3	4539.7 4539.7	5050
						40N/17E-31F01 "	4544.1	10/17/84 03/26/85	10.4 14.5	4537.3 4529.6	5050
						40N/17E-31W01 "	4582.0	10/17/84 03/26/85	41.2 36.1	4538.4 4543.4	5050
						40N/17E-31P01 "	4554.0	10/17/84 03/26/85	15.1 10.5	4538.9 4543.5	5050
						G-12.8	CEARVILLE WA				
						43N/16E-13G01 "	4540.0	10/17/84 03/26/85	22.5 4.7	4517.5 4533.3	5050
						40N/15E-23B01 "	4673.0	10/17/84 03/26/85	67.6 68.0	4605.4 4605.0	4950
						41N/16E-04X01 "	4652.0	11/01/84 04/18/85	65.0 43.0	4583.0 4607.0	2925
						41N/16E-09A02 "	4683.0	11/01/84 04/18/85	110.4 95.5	4569.5 4584.5	2925
						41N/16E-14W01 "	4635.0	11/02/84 04/18/85	74.0 64.0	4541.0 4571.0	2925
						41N/16E-23J01 "	4570.0	11/01/84 04/18/85	4.4 2.0	4541.5 4548.0	2925
						41N/16E-35O02 "	4621.5	10/17/84 03/26/85	43.5 39.5	4578.0 4582.0	5050
						41N/16E-35O03 "	4634.0	11/01/84 04/18/85	43.0 35.0	4642.0 4650.0	2925
						41N/16E-35F01 "	4569.3	11/01/84 04/18/85	44-9 10.5	4558.8 4558.8	2925
						42N/16E-04X01 "	4540.0	10/17/84 03/26/85	31.2 14.5	4508.8 4526.5	5050
						42N/15E-05C01 "	4675.0	10/31/84 04/18/85	118.5 106.5	4556.5 4568.5	2925
						42N/16E-05F01 "	4664.0	10/31/84 04/18/85	43.0 17.0	4622.0 4648.0	2925
						42N/15E-08W01 "	4652.0	10/31/84 04/18/85	21.5 19.5	4630.5 4632.5	2925
						42N/16E-08O01 "	4614.8	10/31/84 04/18/85	107.4 6	4612.4 4614.2	2925
						42N/16E-09X01 "	4534.4	10/31/84 04/18/85	-5.9 -5.0	4540.3 4534.4	2925
						42N/16E-16P01 "	4574.0	10/17/84 03/26/85	21.7 10.0	4534.3 4546.0	5050
						42N/15E-17G01 "	4642.3	11/02/84 04/18/85	12.4 10.0	4627.5 4630.0	2925
						42N/16E-20C01 "	4630.0	11/02/84 04/18/85	10.0 10.0	4620.0 4620.0	2925
						42N/15E-29S01 "	4665.0	11/02/84 04/18/85	54.7 29.0	4607.0 4636.0	2925
						42N/15E-29B02 "	4670.0	11/01/84 04/18/85	74.0 2.0	4612.0 4649.0	2925
						42N/16E-29G01 "	4656.6	11/01/84 04/18/85	46.7 44.7	4609.9 4611.9	2925
						42N/15E-33A02 "	4620.0	10/17/84 03/26/85	19.7 10.7	4546.3 4549.3	5050
						43N/16E-05L01 "	4594.0	10/31/84 04/18/85	44.0 40.0	4551.0 4555.0	2925
						43N/15E-05W01 "	4616.0	10/31/84 04/18/85	34.0 39.5	4542.0 4576.5	2925
						43N/16E-07F01 "	4644.0	10/31/84 04/18/85	14.5 10.0	4665.5 4675.0	2925
						43N/15E-20O01 "	4590.0	10/31/84 04/18/85	74.0 74.0	4613.0 4614.0	2925
						43N/16E-20G01 "	4602.0	04/18/85	49.0	4571.0	2925
						43N/15E-20P01 "	4644.0	10/31/84 04/18/85	70.4 45.5	4514.5 4524.5	2925

TABLE D (CONTINUED)
GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY	STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY
G-12 G-12.4	NORTH LAMONTAN HB SURPRISE VALLEY HU CEDARVILLE MA										
43W/16E-28001 M	4580.0	04/18/85	29.0	4551.0	2925						
43W/16E-28002 M	4585.0	10/31/84 04/18/85	72.5 52.5	4512.5 4532.5	2925						
43W/16E-29001 M	4649.0	10/31/84 04/18/85	110.5 88.0	4514.5 4557.0	2925						
43W/16E-29001 M	4610.0	10/31/84 04/18/85	97.5 88.0	4512.5 4522.0	2925						
43W/16E-32001 M	4640.0	10/18/84 03/26/85	114.5 105.4	4525.5 4534.6	5050						
43W/17E-20001 M	4579.0	10/17/84 03/26/85	52.0 48.2	4527.0 4530.8	5050						
43W/17E-21101 M	4580.0	10/17/84 03/26/85	52.0 50.0	4528.0 4530.0	5050						
G-12.C	FORT BIDWELL MA										
43W/16E-06002 M	4615.0	10/17/84 03/26/85	52.2 39.8	4562.8 4579.2	5050						
44W/15E-25001 M	4553.4	10/25/84 04/18/85	23.5 15.5	4529.9 4537.9	2925						
44W/15E-36001 M	4640.0	10/17/84 05/26/85	78.5 78.8	4561.5 4561.2	5050						
44W/16E-21801 M	4494.3	10/31/84 04/18/85	8.8 4.3	4487.5 4490.0	2925						
46W/16E-03801 M	4710.0	10/29/84 04/18/85	161.0 MM-7	4549.0	2925						
46W/16E-04001 M	4600.0	10/25/84 04/18/85	59.0 58.0	4541.0 4544.0	2925						
46W/16E-16801 M	4512.0	04/18/85	5.0	4507.0	2925						
46W/16E-16901 M	4520.0	10/29/84 04/18/85	15.0 12.5	4505.0 4507.5	2925						

APPENDIX E

GROUND WATER QUALITY



APPENDIX E

GROUND WATER QUALITY

Appendix E presents the results of chemical analyses of ground water samples collected in Northeastern California from October 1, 1984 to September 30, 1985. The data are grouped in four categories:

Table	Title
E-1	Mineral Analyses of Ground Water
E-2	Minor Element Analyses of Ground Water
E-3	Miscellaneous Analyses of Ground Water
E-4	Nutrient Analyses of Ground Water

Ground water quality stations are listed in the tables by ascending areal code. The areal code is explained on page 2. Areal code numbers appear in the tables to the left of the hydrologic area names, and the data listed thereunder are in that hydrologic area. The number of quality stations precludes plotting each individual well on maps in this publication. Instead, Figure 8 shows the location of the ground water basins in which the water samples were taken.

To facilitate station location, the cross references on the following page relate hydrologic areas to the ground water basins shown on Figure 8 and lists the respective areal codes. The location and definition of any hydrologic area may be determined by entering Figure 2 (page 4) with the respective areal code. The cross reference also lists the page numbers on which the analyses may be found. (The number of pages referenced indicates the extent of analyses for each station.)

The location of a well can be approximated by the well number. The numbering system for the wells is described in Appendix D, page 205.

In order to increase the amount of information in the water quality tables, some columns have multiple headings, and data are tabulated respectively. For example, the first column of Table E-1 shows the date of sampling printed above the time of sampling so the data are tabulated in that order. If a part of the values for a multiple heading column are obtained, they will appear in the column with respect to the heading positions. If dashes (or no data) appear in a column, it means no data were obtained.

Abbreviations and codes used in the tables are explained at the beginning of each table.

Appendix E Cross Reference

Ground Water Basin - Areal Code

Ground Water Basin		Hydrologic	Areal	Analysis	Ground Water Basin		Hydrologic	Areal	Analysis		
No.	Name	Area*	Code**	on page	No.	Name	Area*	Code**	on page		
		SACRAMENTO	HB	A	262,303, 311,313		TEHAMA	HA	A-13	278,304, 311,313	
		SACRAMENTO DELTA	HU	A-01	262,303	5-21	Sacramento Valley	Lower Stony Creek	HA	A-13.A	278,313
		VALLEY PUTAH-CACHE	HU	A-02	263,303	5-21	Sacramento Valley	Red Bluff	HA	A-13.B	279,304, 311,313
5-21	Sacramento Valley	Elmira	HA	A-02.A	263,303			STONEY CREEK	HU	A-14	286,305
5-21	Sacramento Valley	Lower Putah Creek	HA	A-02.B	264			Foot Springs	HA	A-14.C	286,305
5-21	Sacramento Valley	Lower Cache Creek	HA	A-02.C	264	5-63	Stoneyford Town Area	Stoneyford Fork Stoney	HSA	A-14.C1	286,305
		PUTAH CREEK	HU	A-03	264			REDDING	HU	A-17	286
5-18	Coyote Valley	Upper Putah Creek	HA	A-03.B	264	5-6	Redding Basin	Enterprise Flat	HA	A-17.A	286
5-19	Collyson Valley				5-6	Redding Basin	Lower Cottonwood	HA	A-17.B	287	
5-67	Clear Lake Pleistocene Volcanics							PIT RIVER	HU	A-23	287
		CACHE CREEK	HU	A-04	264,303, 313	5-5	Fall River Valley	McArthur	HA	A-23.C	287
		Upper Cache Creek	HA	A-04.D	264,303, 313	5-40	Hot Springs Valley	Big Lake	HSA	A-23.C1	287
5-30	Lower Lake Valley	Lower Lake	HSA	A-04.D1	264			Big Valley	HA	A-23.D	287
5-14	Scott Valley	Lakeport	HSA	A-04.04	265,303, 313	5-4	Big Valley	Bieber	HSA	A-23.D1	287
5-15	Kelseyville Valley (Big Valley)					5-2	Alturas Basin	Upper Pit River	HA	A-23.E	288
5-13	Upper Lake Valley	Upper Lake	HSA	A-04.05	266	5-2.01	S. Fork Pit River and Alturas Area	Canby	HSA	A-23.E2	288
		VALLEY-AMERICAN	HU	A-05	267			Alturas	HSA	A-23.E2	288
5-21	Sacramento Valley	Morrison Creek	HA	A-05.A	267			LAKEVIEW	HU	A-24	289
5-21	Sacramento Valley	Franklin	HSA	A-05.A1	267	5-1	Goose Lake Valley	Davis Creek	HA	A-24.A	289
5-21	Sacramento Valley	Florin	HSA	A-05.A2	267			SAN JOAQUIN	HB	B	290,306
5-21	Sacramento Valley	Coon American	HA	A-05.B	267			SAN JOAQUIN DELTA	HU	B-01	290,306
5-21	Sacramento Valley	Lower American	HSA	A-05.B1	267	5-22	San Joaquin Valley	NORTH DIABLO RANGE	HU	B-02	292
5-21	Sacramento Valley	Pleasant Grove	HSA	A-05.B2	267	5-22	San Joaquin Valley	NORTH VALLEY FLOOR	HU	B-03	292,306
		COLUSA BASIN	HU	A-07	268,304, 311,313	5-22	San Joaquin Valley	Lower Consumnes - Dry	HA	B-03.A	292
5-21	Sacramento Valley	Sycamore-Sutter	HA	A-07.A	268	5-22	San Joaquin Valley	Herald	HSA	B-03.A2	292
5-21	Sacramento Valley	Glenn-Colusa	HA	A-07.B	269,304, 311,313	5-22	San Joaquin Valley	Lower Mokelumne	HA	B-03.B	293,306
5-21	Sacramento Valley	Colusa Trough	HSA	A-07.B1	269,304, 311,313	5-22	San Joaquin Valley	Lower Calaveras	HA	B-03.C	293,306
5-21	Sacramento Valley	Orland	HSA	A-07.B2	270	5-22	San Joaquin Valley	Duck-Littlejohns	HA	B-03.D	294,307
5-21	Sacramento Valley	Sutter Bypass	HA	A-07.C	270			MIDDLE SIERRA	HU	B-04	295,307
5-21	Sacramento Valley	Butte Basin	HA	A-07.D	270,304, 311,313			Sutter Creek	HA	B-04.B	295,307
		MARYSVILLE	HU	A-08	273,304, 311,313			NORTH LAHONTAN	HB	C	296,308, 317
5-21	Sacramento Valley	Lower Bear River	HA	A-08.A	273			SUSANVILLE	HU	G-08	296,308
5-21	Sacramento Valley	Olivehurst	HA	A-08.B	273			Merlong	HA	G-08.A	296,308
5-21	Sacramento Valley	Lower Yuba River	HA	A-08.C	273,304	6-4	Honey Lake Valley	Susan River	HA	G-08.B	297,308
5-21	Sacramento Valley	Lower Feather River	HA	A-08.D	273,304, 311,313	6-92	Pine Creek Valley	Eagle Drainage	HA	G-08.C	299,308, 317
		FEATHER RIVER	HU	A-11	273	6-93	Harvey Valley	Antelope Mountain	HSA	G-08.C1	300,308, 317
5-11	Mohawk Valley	Middle Fork Feather	HA	A-11.C	273			Snow Storm Mountain	HA	G-08.D	300
5-60	Mumbug Valley	Sloat	HSA	A-11.C2	273	6-100	Secret Valley				
5-59	Grizzly Valley	Sloat	HSA	A-11.C3	273	6-103	Modoc Plateau				
5-12	Sierra Valley	Lake Davis	HSA	A-11.C4	273			Pleistocene Volcanic Area			
		Sierra Valley	HSA	A-11.C4	273						
		North Fork Feather	HA	A-11.D	277	6-2	Madeline Plains	MADLINE PLAINS	HU	G-10	300
5-7	Lake Almanor Valley	Mount Harkness	HSA	A-11.D4	277	6-1	Surprise Valley	SURPRISE VALLEY	HU	G-12	300
		East Branch				6-1	Surprise Valley	Bare Creek	HA	G-12.A	300
		North Fork	HA	A-11.E	278	6-1	Surprise Valley	Cedarville	HA	G-12.B	300
5-10	American Valley	Quincy	HSA	A-11.E2	278	6-1	Surprise Valley	Forbid Sidwell	HA	G-12.C	301
5-9	Indian Valley	Crescent Mills	HSA	A-11.E3	278						

*See page 2.

**See figure 2.

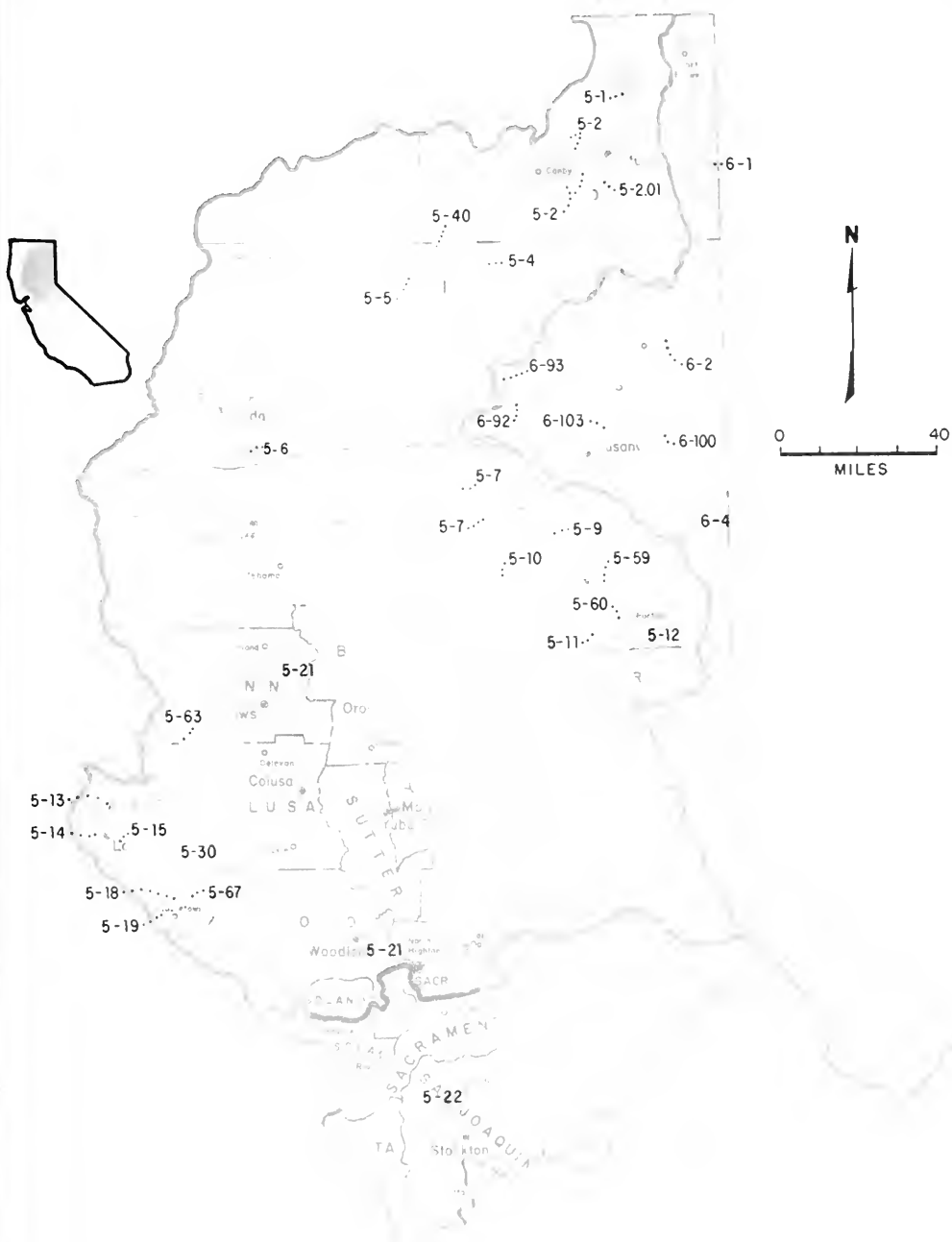


Figure 8 LOCATION OF GROUND WATER BASINS - QUALITY

TABLE E-I

MINERAL ANALYSES OF GROUND WATER

Lab and Sampler Agency Code

2328- Butte County
 5050 - California Department of Water Resources
 5060 - California Department of Health, Berkeley Laboratory
 5684 - Sierra Environmental Monitoring Laboratory
 5701 - California Water Service Company
 5867 - Fruit Growers Laboratory
 7748 - California Department of Forestry
 8200 - Colusa County
 9580 - Monarch Laboratory

Abbreviations and Constituents

TIME - Pacific Standard Time on a 24-hour clock
 TEMP - Water temperature at time of sampling in degrees Fahrenheit (F) or Celcius (C)
 Field - Determined in the field
 Laboratory - Determined in the laboratory
 pH - Measure of acidity or alkalinity of water
 EC - Electrical conductance in microsiemens at 25°C

Constituents:

B	-	Boron	K	-	Potassium
CA	-	Calcium	MG	-	Magnesium
CACO3	-	Calcium Carbonate	NA	-	Sodium
CL	-	Chloride	NO3	-	Nitrate
F	-	Fluoride	SIO2	-	Silica
			SO4	-	Sulfate

Boron, Fluoride, and Silica are reported in milligrams per liter. The other minerals are reported in each of three units: milligrams per liter, milliequivalents per liter, and percent reactance value; accordingly, each observation can use three lines of tabulation.

MILLIEQUIVALENTS PER LITER is the concentration in Mg/l divided by the equivalent weight of the ion.

PERCENT REACTANCE VALUE is determined by dividing the sum of the cations or anions in milliequivalents per liter into each constituent in milliequivalents per liter, arriving at a percentage.

TURB - Jackson turbidity units measured with a Hach nephelometer (A); if in the field, (F)
 TDS - Gravimetric determination of total dissolved solids at 180°C (value followed by * is a determination at 105°C)
 SUM - Total dissolved solids by summation of analyzed constituents minus 40 percent of the carbonate weight
 TH - Total hardness
 NCH - Noncarbonate hardness - any excess of total hardness over total alkalinity
 SAR - Sodium adsorption ratio
 ASAR - Adjusted sodium adsorption ratio

(Continued on next page)

- REM - Remarks; code letters are:
- T - Total dissolved solids and the calculated sum of constituents are not within 20 percent of each other.
 - S - The anion sum and cation sum for a complete analysis is not within the prescribed tolerance of ± 5 percent.
 - X - The field EC and the lab EC are not within 20 percent of each other.
 - C - The electrical conductivity divided by the EC-EPM factor (or, if absent, 100) is not within 20 percent of the average of the cation sum and anion sum for complete analysis.
 - E - Total dissolved solids (TDS) value is not within the range of 0.35 to 0.70 of the electrical conductivity.

TABLE E-1
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP FIELD LABORATORY		MINERAL CONSTITUENTS IN					MILLIGRAMS PER LITER PERCENT REACTANCE VALUE		MILLIGRAMS PER LITER PERCENT REACTANCE VALUE		TDS SIM		TH NCH		SAR ACAR		REM
		PH	EC	CA	MG	NA	K	CO3	SO4	CL	NO3	TURB	SI02	TDS	TH	SAR	ACAR		
A-01		SACRAMENTO DELTA HU																	
05N/01E-23P01 M																			
07/24/85	5050	8.5	828	6.0	8.0	17C	--	301	--	26	--	--	--	4P	10.7				
1245	5050	9.0	809	.30	.46	7.4C	--	6.01	--	.73	--	--	--	0	17.2				
05N/05E-17L02 M																			
02/20/85	5050	1162	--	--	--	--	--	--	--	--	--	--	--						
1525	0000																		
04/24/85	5050	1244	--	--	--	--	--	--	--	--	--	--	--						
1600	0000																		
06/04/85	5050	1256	--	--	--	--	--	--	--	--	--	--	--						
0930	0000																		
07/02/85	5050	1294	--	--	--	--	--	--	--	--	--	--	--						
1300	0000																		
07/31/85	5050	1324	--	--	--	--	--	--	--	--	--	--	--						
1530	0000																		
05N/05E-17N01 M																			
02/20/85	5050	1006	--	--	--	--	--	--	--	--	--	--	--						
1415	0000																		
04/24/85	5050	1134	--	--	--	--	--	--	--	--	--	--	--						
1345	0000																		
06/03/85	5050	1186	--	--	--	--	--	--	--	--	--	--	--						
1100	0000																		
07/02/85	5050	1122	--	--	--	--	--	--	--	--	--	--	--						
1430	0000																		
07/31/85	5050	1138	--	--	--	--	--	--	--	--	--	--	--						
1015	0000																		
05N/05E-17N02 M																			
02/20/85	5050	1454	--	--	--	--	--	--	--	--	--	--	--						
1430	0000																		
04/24/85	5050	1304	--	--	--	--	--	--	--	--	--	--	--						
1515	0000																		
06/04/85	5050	1324	--	--	--	--	--	--	--	--	--	--	--						
0845	0000																		
07/02/85	5050	1356	--	--	--	--	--	--	--	--	--	--	--						
1400	0000																		
07/31/85	5050	1318	--	--	--	--	--	--	--	--	--	--	--						
1640	0000																		
05N/05E-18P01 M																			
02/20/85	5050	1001	--	--	--	--	--	--	--	--	--	--	--						
1215	0000																		
04/24/85	5050	958	--	--	--	--	--	--	--	--	--	--	--						
1100	0000																		
06/03/85	5050	948	--	--	--	--	--	--	--	--	--	--	--						
1315	0000																		
07/01/85	5050	937	--	--	--	--	--	--	--	--	--	--	--						
0930	0000																		
07/31/85	5050	807	--	--	--	--	--	--	--	--	--	--	--						
0900	0000																		
05N/05E-18P01 M																			
02/20/85	5050	1142	--	--	--	--	--	--	--	--	--	--	--						
1315	0000																		
04/24/85	5050	65	F	955	--	--	--	--	--	--	--	--	--						
1015	0000	18	C																
06/03/85	5050	945	--	--	--	--	--	--	--	--	--	--	--						
1410	0000																		
07/01/85	5050	801	--	--	--	--	--	--	--	--	--	--	--						
1015	0000																		

TABLE E-1 (CONTINUED)

MINERAL ANALYSES OF GROUND WATER																				
DATE TIME	SAMPLER LAR	TEMP	FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER							
					CA	MG	NA	K	CACO3	SO4	CL	NO3	TURB	SiO2	TDS SUM	TH NCH	SAR ASAR	REM		
A A-C1		SACRAMENTO HR SACRAMENTO DELTA HU																		
05N/05F-1R001 M		CONTINUED																		
07/31/85 0930	5050 0000				914	--	--	--	--	--	--	--	--	--	--					
05N/05F-1R001 M																				
02/20/85 1115	5050 0000				347	--	--	--	--	--	--	--	--	--	--					
05N/05F-1R001 M																				
04/24/85 1300	5050 0000				316	--	--	--	--	--	--	--	--	--	--					
05N/05F-1R001 M																				
06/04/85 0800	5050 0000				328	--	--	--	--	--	--	--	--	--	--					
05N/05F-1R001 M																				
07/02/85 1500	5050 0000				341	--	--	--	--	--	--	--	--	--	--					
05N/05F-1R001 M																				
07/31/85 1600	5050 0000				342	--	--	--	--	--	--	--	--	--	--					
07N/04E-11602 M																				
07/17/85 1530	5050			7.9 8.1	2018 2120	91 4.54	36 2.96	262 11.40	--	159 3.18	--	556 15.68	--	--	--		375 216	5.9 12.6		
A-02 A-02.A		VALLEY BUTAH-CACHE HU ELMIRA HA																		
04N/01E-01J01 M																				
07/23/85 1345	5050 5050	AR 20	F C	8.2 7.7	1740 1710	58 2.89	101 8.31	126 5.48	--	220 4.40	--	353 9.95	--	--	--		560 340	2.3 5.7		
04N/03F-31F02 M																				
07/18/85 1430	5050 5050	04 18	F C	8.3 8.8	876 861	16 0.80	17 1.40	145 6.31	--	260 5.37	--	94 2.85	--	--	--		110 0	6.0 11.5		
04N/01E-13J02 M																				
07/22/85 1200	5050 5050			8.0 8.4	530 531	15 0.75	15 1.23	84 3.65	--	234 4.68	--	18 0.51	--	--	--		99 0	3.7 6.8		
06N/01E-19001 M																				
07/24/85 0930	5050 5050			7.2 8.0	920 816	42 2.10	30 2.47	68 2.96	--	208 4.16	--	68 1.92	--	--	--		229 21	2.0 4.2		
06N/02E-19J01 M																				
07/23/85 1030	5050 5050	65 19	F C	7.9 8.3	1410 1390	33 1.65	106 8.72	125 5.44	4 0.01	378 7.55	97 2.02	169 4.77	29.0 4.7	4 3	--	808 786	519 141	2.4 6.4		
07N/01E-08N02 M																				
07/24/85 1400	5050 5050			8.1 8.4	362 357	24 1.20	18 1.48	28 1.22	--	174 3.48	--	7.0 0.20	--	--	--		134 0	1.1 2.0		
07N/01E-14J01 M																				
08/19/85 1457	5701 5701	64 18	F C		945	75 3.74	64 4.8	47 2.04	1.3 0.03	445 8.89	36 0.75	16 0.45	44.0 0.71	--	0.1 34.0		450 6	1.0 2.6		
07N/01E-14N03 M																				
08/19/85 0945	5701 5701	18 44	F C	7.7	690	45 2.25	47 3.87	29 1.26	1.2 0.03	305 6.09	28 0.58	13 0.37	22.0 0.35	--	0.1 32.0		307 2	0.7 1.8		
07N/01E-23N02 M																				
08/19/85 1405	5701 5701	70 21	F C	7.9	575	27 22	25 34	60 43	1.2 0	257 83	20 42	13 0.37	17.0 0.27	--	0.1 32.0		171 340	0 4.2		
07N/02E-02N01 M																				
08/02/85 1000	5050 5050	64 18	F C	7.5 8.6	1332 1200	18 0.90	116 9.54	72 3.13	--	512 10.23	--	60 1.69	--	--	--		522 11	1.4 3.9		
07N/02E-08N01 M																				
07/23/85 1200	5050 5050	70 21	F C	7.5 8.4	872 822	56 2.79	69 5.67	44 1.91	1.9 0.05	408 8.15	36 0.75	14 0.39	26.0 0.42	7 4	--	508 492	424 16	0.9 2.5		
07N/02E-34C02 M																				
07/23/85 1500	5050 5050	44 18	F C	7.5 8.1	1080 967	31 1.55	89 7.32	60 2.61	--	369 7.37	--	42 1.18	--	--	--		444 75	1.2 3.3		
07N/03F-08R01 M																				
08/20/85 0930	5050 5050	66 19	F C	7.9 8.7	895 930	34 1.70	80 6.58	55 2.35	--	450 8.69	--	30 0.89	--	--	--		414 0	1.2 3.2		

TABLE E-1 (CONTINUED)
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY		MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALU				MILLIGRAMS PER LITER				REM	
			PH	EC	CA	MG	NA	K	CaCO3	SO4	CL	NO3	TURB	SIO2	SiO2	NO2		NH4
A-02 A-02.A																		
SACRAMENTO MR VALLEY PUTAH-CACHE HU ELMIRA NA																		
07/24/85 1015	5050 5050	06H/01W-01R04 M	7.5 8.1	729 659	42 32	27 34	52 34	217 4.34	--	51 1.44	--	--	--	216 0	1.5 3.3			5
07/24/85 0845	5050 5050	06H/01W-23L01 M	87 19	F C	7.6 8.1	541 513	32 30	19 29	51 41	196 3.92	--	13 .57	--	--	154 0	1.8 3.5		5
07/24/85 1540	5050 5050	07H/01W-14P03 M	74 23	F C	7.5 8.3	375 371	41 2.05	7.0 1.56	27 1.17	194 3.08	--	9.0 .25	--	--	131 0	1.0 1.9		5
07/24/85 1445	5050 5050	08H/01W-28J01 M	65 18	F C	7.3 8.4	397 387	22 1.10	31 2.55	11 .48	188 3.76	--	5.0 .14	--	--	183 0	0.4 0.7		5
A-02.B																		
LOWER PUTAH CREEK NA																		
08/20/85 1000	5050 5050	08H/02E-13H02 M	84 18	F C	7.7 8.3	1768 1760	20 1.00	148 12.17	98 4.28	2.3 .06	340 6.79	242 5.04	206 5.81	26.0 .42	.7 --	1080 947	1.7 4.5	5
08/20/85 1130	5050 5050	08H/01W-20J02 M	88 20	F C	8.1 8.6	413 441	11 1.55	22 1.81	26 1.13	150 3.00	--	23 .85	--	--	164 18	0.9 1.7		5
08/20/85 1230	5050 5050	09H/01W-21E01 M	85 18	F C	7.5 8.6	658 660	72 1.59	30 2.47	26 1.13	273 5.45	--	31 .67	--	--	303 31	0.7 1.5		5
A-02.C																		
LOWER CACHE CREEK NA																		
08/21/85 1115	5050 5050	10H/01W-02M01 M	88 20	F C	8.3 8.6	353 381	17 .85	14 1.15	43 1.87	167 3.34	--	10 .28	--	--	100 0	1.9 3.2		5
08/21/85 1030	5050 5050	10H/02W-01M02 M	86 19	F C	7.9 8.6	528 553	44 2.20	26 2.14	33 1.44	219 4.38	--	28 .79	--	--	217 0	1.0 2.1		5
A-03 A-03.B																		
PUTAH CREEK HU UPPER PUTAH CREEK NA																		
08/20/85 1030	5050 5050	10H/07W-03L04 M	84 18	F C	6.9 8.6	294 297	11 .55	29 2.38	8.0 .26	147 2.94	--	3.0 .08	--	--	147 0	0.2 0.4		5
08/20/85 1315	5050 5050	11H/06W-19P02 M	83 17	F C	7.1 8.7	527 520	12 .60	64 5.26	4.0 .17	288 5.75	--	4.0 .11	--	--	294 6	0.1 0.2		5
08/20/85 1145	5050 5050	11H/07W-33J02 M	84 18	F C	6.7 8.5	198 202	10 .50	17 1.40	98 .17	98 1.98	--	2.0 .08	--	--	95 0	0.2 0.3		5
08/20/85 1230	5050 5050	11H/07W-35E01 M	86 19	F C	7.1 8.6	291 293	10 .50	26 2.14	1.2 .44	139 2.78	10 .21	4.0 .11	2.6 .04	.0 1	179 147	0.4 0.7		5
A-04 A-04.D 4-04.01																		
CACHE CREEK HU UPPER CACHE CREEK NA LOWER LAKE NSA																		
07/24/85 0910	5050 0000	12H/07W-01M02 M	85.0F 17.2C	6.5	395	--	--	--	--	--	--	--	--	--	--	--	--	5
07/25/85 0930	5050 0000	12H/07W-13M01 M	86.0F 18.9C	6.6	480	--	--	--	--	--	--	--	--	--	--	--	--	5
07/24/85 0840	5050 5050	12H/07W-14C02 M	7.0 8.6	700 877	34 24	20 1.64	83 3.61	.4 .01	144 2.86	152 3.16	20 .56	23.0 .37	.1 5	456 419	1.7 2.3	2.8 5.2		5
07/24/85 0810	5050 0000	12H/07W-14F01 M	84.0F 20.5C	7.0	1900	--	--	--	--	--	--	--	--	--	--	--	--	5
07/23/85 1645	5050 0000	13H/07W-15J02 M	84.0F 20.0C	7.1	410	--	--	--	--	--	--	--	--	--	--	--	--	5

TABLE E-1 (CONTINUED)

MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER				MILLIGRAMS PER LITER					
				CA	MG	NA	K	PERCENT CACO3	CO3	CL	NO3	TURB	SIO2	TDS SUM	TH MCM	S&P 4548	REM
SACRAMENTO HR CAPHE CREEK MHI UPPER CACHE CREEK WA LOWER LAKE HSA																	
07/23/85	A-04 A-04.0 A-04.01 13N/07W-15N01 M	6.8 6.4	220 237	14 20	7.0 5.9	26 1.13	.6 .02	88 1.76	4.0 3	13 16	8.8 8	.7 8	-- --	146 127	64 0	1.4 1.8	
07/23/85	13N/07W-21J02 M	6.9	610	--	--	--	--	--	--	--	--	--	--	--	--	--	
07/23/85	13N/07W-22R03 M	6.8 6.7	500 480	37 36	25 2.06	27 1.17	1.4 .04	193 3.86	--	18 .51	27.0 .44	-- --	-- --	--	196 3	0.8 1.7	
LAKEPORT HSA																	
10/03/84	A-04.04 11N/08W-05R01 M	60.8F 16.0C	7.3 7.3	361 361	29 1.43	16 1.32	9.0 .39	.7 .02	--	18 37	3.0 3	-- --	.0 --	--	130	0.0	
12/04/84	5050 5050	59.0F 15.0C	7.2 7.2	390 390	43 2.25	16 1.32	9.0 .39	.8 .02	--	24 .50	2.0 .06	-- --	.1 --	--	178	0.0	
02/05/85	5050 5050	59.9F 15.5C	7.3 7.3	395 395	41 2.04	16 1.32	9.0 .39	.7 .02	--	21 .44	3.0 .08	-- --	.1 --	--	168	0.0	
04/03/85	5050 5050	59.9F 15.5C	7.2 7.2	375 375	36 1.80	16 1.32	10 .44	-- --	--	19 .40	3.0 .08	-- --	.1 --	--	156	0.0	
06/04/85	5050 5050	60.8F 16.0C	7.2 7.2	395 395	46 2.30	16 1.32	11 .40	-- --	--	19 .40	3.0 .14	-- --	.1 --	--	161	0.0	
08/07/85	5050 5050	60.8F 16.0C	7.1 7.1	395 395	36 1.80	16 1.32	10 .44	-- --	--	17 .35	3.0 .08	-- --	.1 --	--	156	0.0	
11N/08W-05C01 M																	
10/03/84	5050 5050	67.1F 19.5C	7.4 7.4	341 341	22 1.10	10 .82	25 1.09	1.0 .03	--	4.0 .08	3.0 .08	-- --	.3 --	--	96	0.0	
12/04/84	5050 5050	62.6F 17.0C	7.3 7.3	340 340	36 1.80	11 .90	24 1.04	1.1 .03	--	4.0 .08	3.0 --	-- --	.4 --	--	135	0.0	
02/05/85	5050 5050	62.6F 6.0C	7.2 7.2	357 357	37 1.85	11 .90	24 1.04	1.0 .03	--	3.0 .06	3.0 .08	-- --	.3 --	--	138	0.0	
04/03/85	5050 5050	65.3F 18.5C	7.4 7.4	355 355	37 1.85	13 1.07	26 1.22	-- --	--	5.0 .10	3.0 .08	-- --	.3 --	--	146	0.0	
06/04/85	5050 5050	67.1F 19.5C	7.2 7.2	345 345	32 1.60	11 .90	24 1.04	-- --	--	4.0 .08	3.0 .08	-- --	.3 --	--	125	0.0	
08/07/85	5050 5050	78.8F 26.0C	7.2 7.2	340 340	36 1.80	11 .90	24 1.04	-- --	--	5.0 .10	3.0 .08	-- --	.4 --	--	135	0.0	
11N/08W-05C01 M																	
10/03/84	5050 5050	64.4F 16.0C	6.6 6.6	187 187	14 .70	11 .40	7.0 .30	.5 .01	--	5.0 .10	3.0 .08	-- --	.0 --	--	80	0.0	
12/04/84	5050 5050	51.8F 11.0C	6.8 6.8	85 85	6.0 .30	5.0 .41	3.0 .13	.2 .01	--	3.0 .06	2.0 .06	-- --	.1 --	--	36	0.0	
02/05/85	5050 5050	39.2F 4.0C	6.3 6.3	98 98	7.0 .35	6.0 .49	4.6 .17	.4 .01	--	3.0 .06	2.0 .06	-- --	.0 --	--	42	0.0	
04/03/85	5050 5050	50.9F 10.5C	6.2 6.2	104 104	6.0 .30	5.0 .41	3.0 .13	-- --	--	2.0 .04	1.0 .03	-- --	.0 --	--	36	0.0	
06/04/85	5050 5050	59.9F 15.5C	6.3 6.3	137 137	9.0 .45	8.0 .66	5.0 .22	-- --	--	2.0 .04	2.0 .06	-- --	.0 --	--	56	0.0	
04/07/85	5050 5050	68.9F 20.5C	6.6 6.6	165 165	11 .55	9.0 .74	7.0 .36	-- --	--	4.0 .08	4.0 .11	-- --	.0 --	--	64	0.0	
11N/08W-04C01 M																	
10/03/84	5050 5050	57.2F 14.0C	6.8 6.8	232 232	33 1.65	7.0 .58	8.0 .35	1.3 .03	--	6.0 .12	2.0 .06	-- --	.0 --	--	112	0.0	
12/04/84	5050 5050	41.9F 5.5C	6.0 6.0	70 70	7.0 .35	2.0 .16	5.0 .24	.7 .02	--	2.0 .04	1.0 .03	-- --	.1 --	--	26	0.0	
02/06/85	5050 5050	39.2F 4.0C	6.4 6.4	184 184	20 1.00	5.0 .41	6.0 .35	1.2 .03	--	13 .27	2.0 .06	-- --	.0 --	--	70	0.0	

TABLE E-1 (CONTINUED)
MINERAL ANALYSES OF GROUND WATER

TIME	SAMPLER LAB	TEMP °F	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER PERCENT REACTANCE VALUE				MILLIEQUIVALENTS PER LITER				REMARKS	
				CA	MG	NA	K	CL	SODIUM	CHLORIDE	WALSH	F	TDS	TH	SAR		
SACRAMENTO NR CACHE CREEK HSI UPPER CACHE CREEK WA LAKEPORT HSA																	
04/03/85	5050	49.1F	6.0	81	7.0	3.0	5.0	--	--	2.0	2.0	--	.0	--		30	0.0
0845	5050	9.3C			.35	.25	.22			.04	.06						
					.43	.30	.27										5
06/04/85	5050	54.5F	6.7	275	33	7.0	8.0	--	--	20	2.0	--	.0	--		112	0.0
1415	5050	12.5C			1.05	.56	.35			.42	.06						5
					.64	.22	.14										5
10/03/84	5050	57.2F	7.2	297	23	24	5.0	.2	--	3.0	2.0	--	.0	--		156	0.0
1515	5050	14.0C			1.15	1.07	.22	.01		.06	.06						5
					.34	.49	.7	0									5
12/04/84	5050	56.3F	7.3	280	22	23	5.0	.3	--	4.0	1.0	--	.0	--		150	0.0
1315	5050	13.5C			1.10	1.46	.22	.01		.09	.03						5
					.34	.59	.7	0									5
02/04/85	5050	56.3F	7.2	295	22	23	5.0	.3	--	3.0	2.0	--	.0	--		150	0.0
1315	5050	13.5C			1.10	1.89	.22	.01		.06	.06						5
					.34	.59	.7	0									5
04/03/85	5050	56.3F	7.5	277	24	25	5.0	--	--	3.0	1.0	--	.0	--		163	0.0
0945	5050	13.5C			1.20	2.06	.22			.06	.03						5
					.34	.59											5
06/04/85	5050	56.3F	7.0	321	22	23	5.0	--	--	3.0	2.0	--	.0	--		150	0.0
1330	5050	13.5C			1.10	1.89	.22			.06	.06						5
					.34	.59	.7										5
08/07/85	5050	58.1F	7.0	325	23	23	5.0	--	--	5.0	2.0	--	.0	--		152	0.0
1100	5050	14.3C			1.15	1.49	.22			.10	.06						5
					.35	.58	.7										5
08/26/85	5050	62.0F	7.0	850	38	84	--	--	--	--	12	33.0	.1	--		441	
1330	5050	16.7C			790	1.90	6.91				.34	.53					5
08/26/85	5050	62.0F	7.0	850	39	86	12	1.1	7.85	56	13	33.0	.1	--		483	492
1335	5050	16.7C	5.6	815	1.95	7.07	.52	.03	7.65	1.17	.37	.53		--		4.70	69
					.20	.74	.5		.76	.12	.4	.5					0.7
07/23/85	5050	7.0	960	27	75	22	1.0	264	--	39	31.0	--	--	--		376	0.5
1020	5050	8.1	861	16	73	11	0	5.27		1.10	.50					113	1.2
07/23/85	5050	68.0F	7.2	940	--	--	--	--	--	--	--	--	--	--			
0605	0000	20.0C															5
07/23/85	5050	72.0F	7.1	950	--	--	--	--	--	--	--	--	--	--			
0920	0000	22.2C															5
07/23/85	5050	72.0F	7.4	700	--	--	--	--	--	--	--	--	--	--			
0940	0000	22.2C															5
07/23/85	5050	65.0F	7.1	940	--	--	--	--	--	--	--	--	--	--			
1000	0000	14.3C															5
07/23/85	5050	62.0F	7.0	1020	--	--	--	--	--	--	--	--	--	--			
0650	0000	16.7C															5
07/23/85	5050	59.0F	7.0	230	--	--	--	--	--	--	--	--	--	--			
1100	0000	15.0C															5
UPPER LAKE HSA																	
07/23/85	5050	64.0F	6.6	320	23	18	15	--	196	--	3.0	--	--	--		132	0.6
1410	5050	17.6C	8.5	301	1.15	1.44	.65		3.92		.04					0	1.1
					.35	.45	.20										5
07/23/85	5050	7.4	260	--	--	--	--	--	--	--	--	--	--	--			
1510	0000																5
07/23/85	5050	71.0F	7.3	630	--	--	--	--	--	--	--	--	--	--			
1205	0000	21.6C															5
LAKEPORT HSA																	
07/23/85	5050	72.0F	7.0	440	44	24	9.0	--	196	--	11	4.0	--	--		209	0.3
1310	5050	22.2C	8.6	417	2.20	1.07	.36		3.92		.31	.04				13	0.4

TABLE E-1 (CONTINUED)
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PW	EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER A F TDS TH SAR REM					
					CA	MG	NA	K	CaCO3	SO4	CL	NO3	TURB	SIO2	SUM	NCH	ASAR	REM
SACRAMENTO WA CACHE CREEK HU UPPER CACHE CREEK HA UPPER LAKE HSA																		
07/23/85 1230	5050 0000	69.0F 18.3C	7.0	270	--	--	--	--	--	--	--	--	--	--	--			5
07/23/85 1250	5050 0000	70.0F 21.1C	7.1	280	--	--	--	--	--	--	--	--	--	--	--			5
07/23/85 1300	5050 0000	70.0F 21.1C	6.8	210	--	--	--	--	--	--	--	--	--	--	--			5
VALLEY-AMERICAN HU MORRISON CREEK HA FRANKLIN HSA																		
07/17/85 0615	5050 5050	66 F 7.9 19 C 8.0	345 371	1.45 36	29 33	16 33	28 30	1.9 1	178 3.56	6.0 12	11 31	.0 .00	.1 0	--	238 199	139 0	1.0 2.0	
07/17/85 0930	5050 5050	68 F 7.9 20 C 8.1	433 459	2.45 48	49 26	16 24	28 24	3.0 2	171 3.42	7.0 15	39 1.10	.1 .00	.0 0	--	285 245	188 18	0.9 1.8	5
07/17/85 1115	5050 5050	7.3 8.0	205 219	13 30	8.0 30	2C 4C	--	--	89 1.78	--	9.0 .25	--	--	--	--	66 0	1.1 1.4	5
FLORIN HSA																		
07/18/85 0745	5050 5050	67 F 7.9 19 C 8.2	177 192	1.74 .70	14 33	9.0 39	15 31	--	71 1.42	--	9.0 .25	--	--	--	--	72 1	0.8 1.0	5
07/18/85 0830	5050 5050	67 F 7.9 19 C 8.2	564 608	50 2.50	33 43	26 1.13	--	227 4.54	--	51 1.44	--	--	--	--	261 34	0.7 1.6		5
07/17/85 1400	5050 5050	67 F 7.3 19 C 8.0	284 298	30 1.90	14 47	13 36	13 18	--	112 2.24	--	10 .28	--	--	--	183 21	0.5 0.8		5
COON-AMERICAN HA LOWER AMERICAN HSA																		
07/17/85 1430	5050 5050	68 F 7.9 20 C 8.1	251 265	1.15 45	12 38	12 38	10 17	--	105 2.10	--	7.0 .20	--	--	--	107 2	0.4 0.7		5
07/18/85 1245	5050 5050	67 F 7.9 19 C 7.5	360 381	28 1.40	12 36	12 26	34 1.48	--	136 2.76	--	28 .79	--	--	--	128 0	1.4 2.3		5
07/18/85 1130	5050 5050	7.7 8.2	301 324	18 .90	12 29	12 32	27 38	--	84 1.68	--	40 1.13	--	--	--	94 11	1.2 1.7		5
07/19/85 1030	5050 5050	7.3 7.8	183 193	12 .60	8.0 31	15 35	--	68 1.36	--	14 .39	--	--	--	--	63 0	0.8 1.0		5
07/10/85 0900	5050 5050	69 F 8.3 21 C 8.4	288 314	23 1.15	9.0 23	31 42	--	122 2.44	--	22 .62	--	--	--	--	94 0	1.4 2.2		5
PLEASANT GROVE HSA																		
07/24/85 1100	5050 5050	65 F 7.9 18 C 8.3	581 572	25 1.25	26 21	55 37	1.8 41	244 .05	4.88 8.3	14 .20	25 .71	.4 .01	.2 0	--	337 294	170 0	1.8 5.8	
07/30/85 1115	5050 5050	67 F 7.5 19 C 8.7	540 577	45 2.25	30 37	32 40	--	240 4.80	--	33 .93	--	--	--	--	236 0	0.9 2.0		5
07/30/85 0935	5050 5050	68 F 7.9 20 C 8.3	349 374	29 1.45	14 38	28 30	1.3 32	152 1	3.04 78	3.0 .06	24 .68	7.5 .12	.1 3	--	252 188	130 0	1.1 1.9	7
PLEASANT GROVE HSA																		
07/19/85 1115	5050 5050	69 F 7.9 21 C 7.8	281 288	20 1.00	12 33	20 33	--	97 1.94	--	23 .65	--	--	--	--	100 3	1.0 1.6		5

TABLE E-1 (CONTINUED)
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER							REM
					CA	MG	NA	K	CACO3	SD4	CL	NO3	TJRR	SIO2	SUM	MCH	ASAR			
SACRAMENTO VALLEY-AMERICAN HILLS COON-AMERICAN HILLS PLEASANT GROVE HILLS																				
07/19/85 1515	5050 5050				6.9 8.0	436 466	27 28	14 24	54 48	-- 1.92	-- 1.89	-- --	-- --	-- --	125 29	2.1 3.3			S	
07/19/85 0910	5050 5050	68 F 20 C	7.5 7.8	281 290	22 37	11 30	22 32	-- --	113 2.26	-- --	16 .45	-- --	-- --	-- --	100 0	1.0 1.5			S	
07/30/85 1015	5050 5050	65 F 18 C	7.7 8.4	469 500	44 2.20	30 2.47	18 .78	-- 14	217 4.34	-- --	24 .68	-- --	-- --	-- --	234 17	0.5 1.1			S	
07/19/85 1300	5050 5050				7.5 7.9	171 171	10 .50	7.0 .56	17 .74	-- 1.46	-- --	6.0 .17	-- --	-- --	54 0	1.0 1.2			S	
07/19/85 1430	5050 5050				7.1 8.0	883 912	28 1.40	21 1.73	129 5.61	-- 2.70	-- 3.36	-- --	-- --	-- --	157 22	4.5 7.9			S	
07/30/85 1145	5050 5050	67 F 19 C	7.5 8.5	563 578	43 2.15	40 3.29	24 1.04	1.0 .03	259 5.15	17 5	29 .82	8.4 .14	.0 2	-- --	360 317	272 15	0.6 1.0			
COLUSA BASIN SYCAMORE-SUTTER																				
08/20/85 1500	5050 5050				7.9 8.7	515 540	28 25	22 1.81	56 2.44	232 4.64	-- --	28 .79	-- --	-- --	141 0	1.9 1.9			S	
07/01/85 1120	5050 0000	72.0F 22.2C	7.5	295	--	--	--	--	--	--	--	--	--	--	--	--				
07/01/85 1100	5050 0000	65.0F 18.3C	7.6	500	--	--	--	--	--	--	--	--	--	--	--	--				
07/24/85 1545	5050 5050				7.7 8.4	444 463	26 1.30	33 2.71	2E 1.22	229 4.58	-- --	8.0 .23	-- --	-- --	201 0	0.9 1.8			S	
07/01/85 1035	5050 0000	66.0F 18.9C	7.5	1700	--	--	--	--	--	--	--	--	--	--	--	--				
07/24/85 1515	5050 5050	69 F 21 C	7.5 8.3	227 237	18 .90	14 1.15	1C 1.22	-- 1.6	114 2.28	-- --	5.0 .14	-- --	-- --	-- --	103 0	0.4 0.7			S	
07/01/85 1315	5050 0000	67.0F 19.4C	8.1	395	--	--	--	--	--	--	--	--	--	--	--	--				
07/01/85 0955	5050 0000	65.0F 18.3C	7.9	505	--	--	--	--	--	--	--	--	--	--	--	--				
07/01/85 1340	5050 0000	69.0F 20.5C	7.7	1620	--	--	--	--	--	--	--	--	--	--	--	--				
07/01/85 1255	5050 0000	68.0F 20.0C	7.7	810	--	--	--	--	--	--	--	--	--	--	--	--				
07/01/85 1245	5050 0000	69.0F 20.5C	7.6	1305	--	--	--	--	--	--	--	--	--	--	--	--				
07/01/85 1240	5050 0000	70.0F 21.1C	7.7	1050	--	--	--	--	--	--	--	--	--	--	--	--				
07/01/85 1400	5050 5050	66.0F 18.9C	7.9 8.4	740 819	14 11	20 36	7C 32	1.0 1	276 5.51	24 5.90	15 .42	.0 .00	.2 3	-- --	340 326	155 0	2.8 5.8			

TABLE E-1 (CONTINUED)
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER				MILLIGRAMS PER LITER						REMARKS
				CA	MG	NA	K	CaCO3	SO4	CL	NO3	TURB	SiO2	TDS SUM	TH NCH	SAR ASAR		
A A-07 A-07.8 A-07.81 10H/01E-15H02 M SACRAMENTO HA COLUSA BASIN HU GLENN COLUSA HA COLUSA TROUGH HSA																		
08/20/85 1430	5050 5050		7.9 7.7	566 589	42 2.10	30 2.47	34 1.70	237 4.74	--	31 .87	--	--	--	220 0	1.1 2.5			
07/29/85 1100	5050 5050	11H/01E-16P01 M	8.1 7.6	516 542	34 1.75	25 2.06	42 1.83	3.1 .08	219 4.38	19 .40	37 1.04	.5 .01	1.4 0	327 294	101 0	1.3 2.8		
08/21/85 1230	5050 5050	12H/01W-21A01 M	8.1 8.6	391 415	26 1.30	29 2.38	20 .87	219 4.38	--	3.0 .08	--	--	--	185 0	0.6 1.3			
07/02/85 0915	5050 5050	13H/01W-06C01 M	72.5F 22.5C	7.1 8.0	2100 1820	84 4.19	78 6.41	102 4.44	.9 .02	116 2.32	21 .44	421 11.87	57.0 .92	.8 --	938 834	531 414	1.9 4.2	
07/ /85 0920	5050 0000	13H/01W-07A01 M	7.5	1600	--	--	--	--	--	--	--	--	--	--	--	--		
07/02/85 1014	5050 0000	13H/01W-30P01 M	71.0F 21.6C	7.8	460	--	--	--	--	--	--	--	--	--	--	--		
07/02/85 C940	5050 0000	13H/01W-36C02 M	70.0F 21.1C	7.7	520	--	--	--	--	--	--	--	--	--	--	--		
07/02/85 1030	5050 0000	13H/02W-26A01 M	75.0F 23.9C	7.3	600	--	--	--	--	--	--	--	--	--	--	--		
07/02/85 1045	5050 0000	13H/02W-26G01 M	7.8	575	--	--	--	--	--	--	--	--	--	--	--	--		
07/02/85 1124	5050 0000	14H/02W-29J01 M	7.3	280	--	--	--	--	--	--	--	--	--	--	--	--		
07/02/85 1245	5050 0000	15H/02W-32R01 M	68.0F 20.0C	7.6	680	--	--	--	--	--	--	--	--	--	--	--		
07/02/85 1354	5050 0000	15H/03W-01R01 M	72.0F 22.2C	7.8	1085	--	--	--	--	--	--	--	--	--	--	--		
07/02/85 1230	5050 0000	15H/03W-26L01 M	73.0F 22.9C	7.5	660	--	--	--	--	--	--	--	--	--	--	--		
07/02/85 1415	5050 0000	16H/03W-09H01 M	71.0F 21.6C	7.7	585	--	--	--	--	--	--	--	--	--	--	--		
07/02/85 1430	5050 0000	17H/02W-30J02 M	68.0F 20.0C	7.7	1950	--	--	--	--	--	--	--	--	--	--	--		
07/02/85 1400	5050 0000	17H/03W-32H01 M	73.5F 23.0C	7.7	635	--	--	--	--	--	--	--	--	--	--	--		
07/02/85 1435	5050 0000	17H/03W-33R01 M	71.0F 21.6C	7.9	1010	--	--	--	--	--	--	--	--	--	--	--		
07/31/85 1130	5050 0000	18H/02W-01E01 M	66.0F 19.9C	8.0	510	--	--	--	--	--	--	--	--	--	--	--		
07/31/85 1014	5050 0000	18H/02W-07F01 M	68.0F 20.0C	8.0	565	--	--	--	--	--	--	--	--	--	--	--		
07/31/85 1044	5050 0000	18H/03W-10C02 M	69.0F 20.5C	8.0	610	--	--	--	--	--	--	--	--	--	--	--		

TABLE E-1 (CONTINUED)

MINERAL ANALYSES OF GROUND WATER																							
DATE TIME	SAMPLER LAR	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER								REF			
				CA	MG	NA	K	CAC03	SO4	CL	NO3	TH04	NO3	TH04	NO3	TH04	NO3	TH04					
SACRAMENTO HR COLUSA BASIN HU GLENN COLUSA WA COLUSA TROUGH HSA																							
07/31/85 0855	5050 0000	65.0F 18.3C	7.2	390	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/31/85 1310	5050 0000	66.0F 18.9C	7.8	760	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/31/85 0910	5050 0000	71.0F 21.6C	7.8	750	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/01/85 1335	5701 5701	68.0F 20.0C	7.8	555	30 1.30	25 2.00	5C 2.16	.7 .02	223 4.30	32 12	12 6	16.0 5	--	.3 21.0	322	177	1.6 3.4	--	--	--	--	--	--
07/01/85 1045	5701 5701	68.0F 20.0C	7.9	590	29 1.45	29 2.38	51 2.22	.8 .02	237 4.74	52 17	11 5	8.0 2	--	.4 24.0	346	190	1.6 3.4	--	--	--	--	--	--
07/31/85 0930	5050 0000	66.0F 18.9C	8.0	570	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/01/85 1320	5701 5701	66.2F 19.0C	7.8	575	28 1.40	27 2.22	51 2.22	.7 .02	237 4.74	43 15	7.0 3	7.0 2	--	.4 26.0	332	183	1.6 3.5	--	--	--	--	--	--
07/31/85 0946	5050 0000	65 F 18 C	8.0	600	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/31/85 1106	5050 5050	70.0F 21.1C	7.8 8.7	580 583	32 1.60	28 2.30	56 2.44	-- 38	244 4.88	--	14 .39	4.4 .07	--	--	--	195	1.7 3.8	--	--	--	--	--	--
07/31/85 1430	5050 0000	67.0F 19.4C	7.6	530	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/31/85 1440	5050 0000	73.0F 22.8C	8.1	520	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/31/85 1410	5050 0000	71.0F 21.6C	8.2	350	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/30/85 1320	5050 0000		8.0	380	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/30/85 1605	5050 0000		8.0	420	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/31/85 0835	5050 0000	67.0F 19.4C	7.6	425	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/30/85 1545	5050 0000	72.0F 22.2C	8.0	350	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/31/85 1505	5050 0000	68.0F 18.9C	7.8	520	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/30/85 1415	5050 0000	69.0F 20.5C	7.2	650	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/30/85 1515	5050 0000		8.1	330	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ORLANDO HSA																							
07/30/85 1345	5050 5050	67.0F 19.4C	7.2 8.2	565	32 1.60	31 2.55	22 .96	1.2 .03	127 2.94	--	35 .99	44.0 .74	--	--	--	208	0.7 1.3	--	--	--	--	--	--

TABLE E-1 (CONTINUED)

MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY	FIELD PH	EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER				MILLIGRAMS PER LITER				REH	
						CA	MG	NA	K	CACO3	SO4	CL	NO3	PERCENT REACTANCE VALUE	TDS	TH	SAR		ASAP
SACRAMENTO HR COLUSA BASIN HU GLENN COLUSA HA ORLAND NSA																			
07/30/85 1303	5050 5050	69.0F 20.5C	7.6 14.6	560 530	27 1.35	22 33	21 1.01	-- 22	136 2.72	-- 1.54	10 19	12.0 19	-- --	-- --	-- --	154 22	0.7 1.3	-- --	5
07/30/85 0950	5050 0000	72.0F 22.2C	7.6	445	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5
07/30/85 0930	5050 5050	66.0F 18.9C	7.8 8.6	420 395	29 1.45	14 1.15	15 1.03	-- 24	136 2.72	-- 1.48	-- --	-- --	-- --	-- --	-- --	130 0	0.7 1.3	-- --	5
07/30/85 0915	5050 5050	68.0F 20.0C	7.8 14.2	510 422	28 1.40	17 1.40	18 1.78	16 1.02	117 2.34	22 13	21 18	13.0 6	+2 --	-- --	242 190	140 23	0.7 1.1	-- --	7
07/31/85 1545	5050 0000	67.0F 19.4C	7.5	445	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5
07/30/85 1435	5050 0000	68.0F 20.0C	7.0	490	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5
A-07.C SUTTER BYPASS HA																			
07/24/85 1245	5050 5050	65 F 18 C	7.5 8.4	354 375	29 1.45	22 1.61	18 1.76	-- 19	168 3.36	-- 1.39	14 --	-- --	-- --	-- --	-- --	163 0	0.6 1.2	-- --	5
07/24/85 1330	5050 5050	66 F 19 C	7.9 8.4	502 522	35 1.75	34 2.80	30 1.31	1.6 1.04	266 5.31	9.0 1.19	14 19	3.6 0.06	+1 --	-- --	326 287	228 0	0.9 2.0	-- --	5
07/24/85 1415	5050 5050	7.7 8.3	8.82 624	31 1.35	64 5.26	50 2.18	-- 2.4	-- --	312 6.23	-- --	9.0 25	-- --	-- --	-- --	-- --	341 29	1.2 2.9	-- --	5
07/23/85 1700	5050 5050	7.3 8.3	241 249	20 1.00	15 4.0	7.0 4.9	-- 12	-- --	119 2.38	-- --	3.0 1.08	-- --	-- --	-- --	-- --	112 0	0.3 0.5	-- --	5
07/24/85 1430	5050 5050	67 F 19 C	7.5 8.4	297 304	24 1.20	15 1.23	20 1.87	-- 26	136 2.72	-- 1.28	10 --	-- --	-- --	-- --	-- --	122 0	0.8 1.4	-- --	5
07/23/85 1130	5050 5050	65 F 18 C	7.1 8.0	1476 1430	43 2.15	104 8.55	47 2.04	-- 16	234 4.68	-- 6.29	223 --	-- --	-- --	-- --	-- --	536 301	0.9 2.2	-- --	5
07/23/85 1330	5050 5050	7.5 8.3	453 467	33 1.65	33 2.71	16 1.05	2.1 1.22	206 4.12	26 5.4	10 10	15.0 2.24	+0 --	-- --	-- --	312 259	219 12	0.5 1.0	-- --	5
07/23/85 1300	5050 5050	65 F 18 C	7.5 8.2	229 242	17 1.05	16 1.32	11 1.48	-- 18	97 1.94	-- --	2.0 1.06	-- --	-- --	-- --	-- --	109 12	0.5 0.7	-- --	5
06/25/85 1430	5050 0000	73.0F 22.8C	7.1	710	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5
06/25/85 1450	5050 0000	62.0F 16.7C	7.2	560	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5
A-07.0 BUTTE BASIN HA																			
07/23/85 1430	5050 5050	67 F 19 C	7.7 8.4	569 580	56 2.79	38 3.13	28 1.22	-- 17	291 5.61	-- 1.31	11 --	-- --	-- --	-- --	-- --	296 6	0.7 1.7	-- --	5
06/25/85 1415	5050 5050	69.0F 20.0C	7.3	1000 948	31 1.55	72 5.92	-- --	-- --	-- --	-- --	30 1.05	-- --	-- --	-- --	-- --	374	--	--	5
06/25/85 1210	5050 0000	70.0F 21.1C	7.1	315	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5

TABLE E-1 (CONTINUED)

MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER				MILLIEQUIVALENTS PER LITER				PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER				SAR	BEH					
					CA	MG	NA	K	CACD3	SO4	CL	NO3	TURN	SIO2	TDS	SUM	TH	NCM	ASAR	ASAR											
A A-07 A-07.0		SACRAMENTO HB COLUSA BASIN MU BUTTE BASIN MA																													
06/25/83 1945	3050 3050	18N/02E-13R05 M	67.0F 19.4C	7.3 8.4	200 196	12 12	12 11	-- 23	97 1.94	--	1.0 .03	--	--	--							80 0	0.5 0.8									
06/25/83 1340	3050 0000	18N/02E-14K01 M	71.0F 21.8C	7.3	320	--	--	--	--	--	--	--	--	--																	
06/25/83 3050	3050 3050	18N/03E-29P01 M	69.0F 20.5C	7.3 8.3	200 191	12 12	11 11	-- 23	88 1.76	--	1.0 .03	.0 .00	--	--							75 0	0.5 0.7									
06/25/83 1320	3050 0000	19N/02E-18R01 M	73.0F 22.8C	7.3	260	--	--	--	--	--	--	--	--	--																	
06/25/83 1120	3050 0000	20N/01E-01C01 M	70.0F 21.1C	8.9	920	--	--	--	--	--	--	--	--	--																	
06/25/83 1000	3050 3050	20N/02E-04R01 M	66.0F 18.9C	7.2 8.3	320 335	25 1.23	19 1.36	16 14	152 3.04	--	5.0 .14	5.3 .09	--	--							141 0	0.4 0.7									
06/25/83 1250	3050 0000	20N/02E-29R01 M	72.0F 22.2C	7.3	630	--	--	--	--	--	--	--	--	--																	
06/24/83 1320	3050 3050	20N/03E-15H01 M	65.0F 18.3C	6.8 8.3	180 186	16 16	9.0 .74	5.0 22	72 1.44	--	1.0 .03	18.0 .29	--	--							77 5	0.2 0.3									
12/26/84 2328 9580	2328 9580	21N/01E-01G02 M		7.2	312	--	--	--	--	--	--	12.0 .19	--	--																	
06/19/85 2328 9580	2328 9580			7.5	250	--	--	--	--	--	--	10.0 .16	--	--																	
12/26/84 2328 9580	2328 9580	21N/01E-02C02 M		7.0	320	--	--	--	--	--	--	21.0 .34	--	--																	
06/19/85 2328 9580	2328 9580			7.3	410	--	--	--	--	--	--	20.0 .32	--	--																	
12/26/84 2328 9580	2328 9580	21N/01E-03H03 M		6.9	1040	--	--	--	--	--	--	56.0 .90	--	--																	
06/19/85 2328 9580	2328 9580			7.5	690	--	--	--	--	--	--	39.0 .63	--	--																	
09/17/83 1500	3050 3050	21N/01E-08H02 M	67.0F 19.4C	7.0 8.6	780 798	65 3.24	92 4.28	23 1.00	270 5.39	--	51 1.44	39.0 .63	--	--							376 107	0.3 1.3									
12/26/84 2328 9580	2328 9580	21N/01E-09G04 M		6.4	481	--	--	--	--	--	--	31.0 .50	--	--																	
06/19/85 2328 9580	2328 9580			7.4	430	--	--	--	--	--	--	26.0 .39	--	--																	
06/25/83 0930	3050 0000	21N/02E-21R01 M	67.0F 19.4C	7.1	490	--	--	--	--	--	--	--	--	--																	
06/24/83 1245	3050 0000	21N/03E-10K01 M	72.0F 22.2C	8.9	290	--	--	--	--	--	--	--	--	--																	
08/12/83 1345	5701 5701	22N/01E-35E01 M	64.4F 18.0C	7.2	370	34 1.70	24 1.97	14 1.0	183 3.66	9.0 .39	14 .39	9.0 .08	--	.1 56.0	267 267	196 1	0.4 0.9														
08/12/83 1315	5701 5701	22N/01E-36C01 M	66.0F 20.0C	7.9	220	18 .90	11 .90	14 .76	2.1 2.18	109 2.18	9.0 .17	9.0 .23	1.0 .02	--	.1 98.0	198 197	0.7 1.1														

TABLE E-1 (CONTINUED)
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAR	TEMP PH	FIELD LABORATORY EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER					
				CA	MG	NA	K	CaCO3	SO4	CL	NO3	TURB	STO2	SiO2	TH	SAR	PERM
SACRAMENTO RIVER BASIN HA																	
A-07 A-07.D																	
07/01/85 0910	5050 0000	17N/01W-06R01	M	62.0F 16.7C	7.8	348	--	--	--	--	--	--	--	--	--	--	--
07/01/85 0930	5050 0000	17N/01W-30R01	M	65.0F 16.3C	8.0	345	--	--	--	--	--	--	--	--	--	--	--
07/31/85 1240	5050 0000	18N/01W-16R01	M	69.0F 20.5C	8.2	420	--	--	--	--	--	--	--	--	--	--	--
06/25/85 1100	5050 0000	21N/01W-35C01	M	71.0F 21.6C	7.2	510	--	--	--	--	--	--	--	--	--	--	--
A-08 A-08.A				MARYSVILLE MU LOWER REAR RIVER HA													
07/22/85 1100	5050 5050	14N/05E-16R01	M	65 F 18 C	6.9 7.9	1412 1710	164 8.18	84 6.91	34 1.46	--	93 1.86	--	448 12.63	--	--	755 662	0.5 1.2
07/22/85 1000	5050 5050	14N/05E-32R03	M	67 F 19 C	7.3 8.1	358 389	31 1.55	22 1.81	17 1.74	4.9 .02	120 2.40	--	22 46	26 73	20.0 .32	280 211	168 48
A-08.B				OLTVENHURST HA													
07/22/85 1230	5050 5050	14N/04E-14J02	M	69 F 21 C	7.3 8.0	200 213	14 .70	11 .90	15 .65	--	85 1.70	--	13 .37	--	--	80 0	0.7 1.0
07/22/85 1145	5050 5050	14N/05E-18R01	M		7.3 8.2	178 190	12 .60	9.0 .74	13 .57	.6 .02	75 1.90	--	5.0 10	8.0 .23	4.2 .07	166 97	67 0
07/22/85 1415	5050 5050	15N/04E-23C01	M	68 F 20 C	7.9 8.0	203 210	17 .85	9.0 .74	14 .61	.9 .02	106 2.12	--	2.0 .04	4.0 .11	.0 .00	143 110	80 0
A-08.C				LOWER YUBA RIVER HA													
06/26/85 1115	5701 5701	15N/03E-12R02	M	66 F 19 C			39 1.95	29 2.38	14 .61	1.6 .04	194 3.88	--	33 .69	11 .31	10.0 .16	--	216 23
08/14/85 1430	5701 5701	15N/03E-13R01	M	64 F 18 C			66 3.29	37 44	24 .41	4.6 .12	270 5.39	--	28 .58	56 1.58	1.0 .02	318 427	0.6 1.4
08/14/85 1450	5701 5701	15N/04E-07J02	M	64 F 18 C			38 1.90	24 1.97	12 .52	2.1 .05	173 3.46	--	33 .69	7.0 .20	6.0 .10	194 271	0.4 0.8
08/26/85 1130	5701 5701	15N/04E-07R02	M	66 F 19 C			33 1.65	25 2.06	10 .44	1.5 .04	192 3.84	--	14 .29	3.0 .08	8.0 .13	186 272	0.9 0.7
08/14/85 1445	5701 5701	15N/04E-18C01	M	68 F 20 C			29 1.45	21 1.73	13 .57	2.2 .06	157 3.14	--	22 .46	6.0 .17	1.0 .02	160 231	0.4 0.9
A-08.D				LOWER FEATHER RIVER HA													
07/23/85 1045	5050 5050	16N/03E-36R02	M	65 F 18 C	7.5 8.2	685 675	39 1.95	49 4.03	15 .82	2.0 .05	230 4.60	--	70 1.46	14 .39	30.0 .48	462 361	299 69
07/23/85 0930	5050 5050	16N/04E-09R01	M	65 F 18 C	6.9 8.2	577 615	54 2.69	40 3.29	22 .96	--	285 4.10	--	52 1.47	--	--	299 94	0.6 1.2
07/23/85 0945	5050 5050	16N/04E-34R01	M	67 F 19 C	7.7 8.0	229 249	23 1.15	12 .90	9.0 .39	--	92 1.84	--	2.0 .06	--	--	107 15	0.4 0.6
06/24/85 1530	5050 0000	17N/04E-20R01	M	69.0F 20.5C	7.5	600	--	--	--	--	--	--	--	--	--	--	--

TABLE E-1 (CONTINUED)
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER								REF
					CA	MG	NA	K	CACO3	SO4	CL	NO3	TURB	SiO2	TDS SUM	TH MCH	SAR	ASAR			
SACRAMENTO NB MARTSVILLE HU LOWER FEATHER RIVER HA																					
06/24/83 1430	A A-08 A-08.0 18N/03E-25J01 M 5050 0000	74.0F 23.3C	7.1	280	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
06/25/83 1320	18N/03E-33H01 M 5050 0000	70.0F 21.1C	7.5	240	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
06/24/83 1400	18N/04E-07A01 M 5050 0000	68.0F 20.0C	7.1	175	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
06/24/83 1430	18N/04E-28H01 M 5050 5050	72.0F 22.2C	8.1 8.5	3200 3040	51 2.54	3.0 1	62C 9C	5.1 0	121 2.42	862 17.95	323 9.05	5.2 0.08	6.3 0	.6 --	2010 1944	140 19	22.8 55.1				
06/24/83 1345	19N/04E-06P01 M 5050 5050	64.0F 20.5C	7.3 8.3	195 192	10 24	6.0 32	20 42	.6 1	84 1.68	7.0 .15	4.0 .11	2.8 .05	.0 3	--	161 103	98 0	1.1 1.4			E T	
06/24/83 1125	19N/04E-07P01 M 5701 5701	64.4F 18.0C	7.3 7.5	750	40 29	20 24	7.3 4.6	2.1 1	136 39	108 2.25	67 1.69	8.0 .13	--	.1 45.0	444 445	161 46	2.4 4.4				
06/24/83 1150	19N/04E-20C01 M 5701 5701	64.4F 18.0C	7.0	385	24 31	18 38	27 3C	.7 1	156 5.12	15 .31	11 .31	12.0 .19	--	.2 60.0	261 261	156 0	1.0 1.0				
07/09/83 1510	A-11 A-11.C A-11.C2 22N/13E-30R01 M 5050 0000	60.0F 15.5C	7.4	395	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
07/09/83 1700	A-11.C3 26N/10E-18H01 M 5050 5050	62.0F 16.7C	7.6 8.0	210 243	21 1.05	17 1.40	13 .57	.4 .01	125 2.50	8.0 .17	1.0 .03	.0 .00	.0 0	--	134 135	125 0	0.5 0.9			5	
07/09/83 1505	A-11.C4 20N/14E-04G02 M 5050 5050	57.0F 13.9C	7.7	200 196	16 .80	6.0 .66	--	--	--	--	1.0 .03	--	--	--	--	73				5	
09/24/83 1025	21N/14E-02H01 M 5050 0000	58.0F 14.4C	7.3	1400	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5	
09/24/83 1015	21N/14E-02H02 M 5050 0000	64.0F 17.6C	7.3	1110	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3	
07/11/83 0640	21N/14E-14H01 M 5050 5050	55.0F 12.6C	7.1	490 468	11 .55	11 .90	--	--	--	--	.43 1.21	.0 .00	.1 --	--	--	72				3	
07/09/83 1600	21N/14E-15J01 M 5050 5050	61.0F 16.1C	7.4	500 443	7.0 .35	8.0 .66	--	--	--	--	.52 1.47	--	--	--	--	90				5	
07/11/83 0920	21N/14E-20G02 M 5050 5050	62.0F 16.7C	7.3	320 314	28 1.40	15 1.23	--	--	--	--	1.0 .03	--	--	--	--	132				5	
07/09/83 1550	21N/14E-22L01 M 5050 0000	57.0F 13.9C	7.3	710	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5	
07/09/83 1540	21N/14E-29J01 M 5050 5050	60.0F 15.9C	7.2	240 229	20 1.00	15 1.23	--	--	--	--	.8 .60	--	--	--	--	112				5	
07/09/83 1530	21N/14E-32G01 M 5050 0000	69.0F 20.5C	7.4	270	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5	

TABLE E-1 (CONTINUED)
MINERAL ANALYSES OF GROUND WATER

TIME	SAMPLER LAR	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER				MILLIGRAMS PER LITER							
				CA	MG	NA	K	CaCO3	SO4	CL	NO3	CO3	SiO2	TDS	SiO2	7H	SAR	REM	
SACRAMENTO HR FEATHER RIVER HU MIDDLE FORK FEATHER NA SIERRA VALLEY HSA																			
07/11/85 1045	5050 5050		56.0F 13.3C	7.8	340 342	11 .95	4.0 .33	-- --	-- --	-- --	36 1.02	.4 .01	.7 --	-- --	44				S
07/11/85 1100	5050 5050		56.0F 13.3C	7.4	280 257	10 .90	4.0 .33	-- --	-- --	-- --	22 .62	1.5 .02	.5 --	-- --	42				S
07/09/85 1430	5050 5050		55.0F 12.8C	7.1 8.1	210 209	18 .90	11 .90	12 .52	-- 22	104 2.06	-- 2.06	2.3 .04	-- --	-- --	90 0	0.6 0.6	0.6 0.6		S
07/09/85 1630	5050 5050		62.0F 16.7C	7.3 8.1	220 175	7.0 .35	5.0 .41	18 .78	10 .26	58 1.16	2.0 .04	2.0 .06	27.0 .44	.1 --	156 106	38 0	1.3 1.1	1.3 1.1	EX T
07/09/85 1440	5050 0000		101.0F 38.3C	7.2	1370	--	--	--	--	--	--	--	--	--	--	--	--	--	S
07/11/85 1150	5050 5050			8.2	280 261	1.0 .05	.0 .00	--	--	--	8.0 .23	.0 .00	1.1 --	--	2				S
07/11/85 1340	5050 5050		52.0F 11.1C	7.8	220 202	12 .60	3.0 .29	--	--	--	1.0 .03	.3 .00	.1 --	--	42				S
07/11/85 1700	5050 5050		66.0F 20.0C	7.3	280 268	12 .70	5.0 .41	--	--	--	14 .39	13.0 .21	.5 --	--	50				S
07/08/85 1415	5050 0000		70.0F 21.1C	7.0	330	--	--	--	--	--	--	--	--	--	--	--	--	--	S
07/08/85 1050	5050 5050		59.0F 15.0C	7.3 7.6	200 201	14 .70	8.0 .86	16 .7C	1.5 .04	104 2.08	2.0 .04	1.0 .03	.0 .00	.0 --	151 105	68 0	0.6 1.2	0.6 1.2	EX T
07/09/85 1050	5050 0000			8.1	2300	--	--	--	--	--	--	--	--	--	--	--	--	--	S
07/08/85 1120	5050 5050		55.0F 12.8C	7.2	190 191	16 .80	9.0 .74	--	--	--	2.0 .06	.0 .00	.0 --	--	77				S
09/24/85 1210	5050 0000		55.0F 12.8C	8.0	200	--	--	--	--	--	--	--	--	--	--	--	--	--	S
09/24/85 0910	5050 0000		103.5F 39.7C	7.5	2250	--	--	--	--	--	--	--	--	--	--	--	--	--	S
09/24/85 0940	5050 0000		52.0F 11.1C	7.5	210	--	--	--	--	--	--	--	--	--	--	--	--	--	S
09/24/85 0930	5050 0000		50.0F 10.0C	7.3	210	--	--	--	--	--	--	--	--	--	--	--	--	--	S
09/24/85 0915	5050 0000		54.0F 12.2C	7.3	203	--	--	--	--	--	--	--	--	--	--	--	--	--	S
07/09/85 1340	5050 0000		75.0F 23.9C	7.8	590	--	--	--	--	--	--	--	--	--	--	--	--	--	S
07/09/85 1630	5050 0000			7.3	440	--	--	--	--	--	--	--	--	--	--	--	--	--	S
09/24/85 1200	5050 0000		59.0F 15.0C	7.1	1080	--	--	--	--	--	--	--	--	--	--	--	--	--	S

TABLE E-1 (CONTINUED)
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER				MILLIGRAMS PER LITER				TDS SUM	TH MCM	SAR ASAR	REF	
				CA	MG	NA	K	CACO3	SO4	CL	NO3	TYPE	SI02							
SACRAMENTO NB FEATHER RIVER MU MIDDLE FORK FEATHER HA SIERRA VALLEY HSA																				
07/09/85 1640	5050 0000	A A-11 A-11.C A-11.C4 22H/15E-21001	M	65.0F 18.3C	7.1	940	--	--	--	--	--	--	--	--	--					
07/09/85 1650	5050 0000	22H/15E-21101	M	64.0F 17.8C	7.0	960	--	--	--	--	--	--	--	--	--					
07/09/85 1700	5050 0000	22H/15E-21101	M	52.0F 11.1C	7.1	940	--	--	--	--	--	--	--	--	--					
07/09/85 1710	5050 0000	22H/15E-21101	M	64.0F 17.8C	7.3	900	--	--	--	--	--	--	--	--	--					
09/24/85 1230	5050 0000	22H/15E-21101	M	57.0F 13.9C	6.4	800	--	--	--	--	--	--	--	--	--					
09/24/85 1320	5050 0000	22H/15E-22C01	M	62.0F 16.7C	7.4	580	--	--	--	--	--	--	--	--	--					
07/10/85 0825	5050 5050	22H/15E-26K03	M	65.0F 18.3C	7.1 8.2	260 211	6.0 .30 14	7.0 .58 26	26 1.13 51	7.9 .20 9	6.9 1.38 6.7	4.0 .08 4	7.0 .20 10	25.0 .40 19	.1	--	185 124	44 0	1.7 1.8	EY T S
07/09/85 1720	5050 0000	22H/15E-32F01	M		8.2	2440	--	--	--	--	--	--	--	--	--				5	
09/24/85 1340	5050 0000	22H/15E-33H01	M	64.0F 17.8C	7.6	500	--	--	--	--	--	--	--	--	--				5	
07/10/85 0920	5050 5050	22H/15E-34G01	M	65.0F 18.3C	7.4	220 211	15 .75	10 .82	--	--	--	--	2.0 .06	1.2 .02	.0	--	70			5
07/10/85 0910	5050 5050	22H/15E-35H01	M	66.0F 20.0C	7.1	240 218	12 .60	10 .82	--	--	--	--	4.0 .11	5.8 .09	.1	--	71			5
07/10/85 0645	5050 5050	22H/15E-36H01	M	69.0F 20.5C	7.3	205 205	11 .55	7.0 .58	--	--	--	--	4.0 .11	1.4 .02	.0	--	56			5
07/10/85 0840	5050 5050	22H/15E-36J01	M		6.1	180 180	2.0 .10	1.0 .08	--	--	--	--	6.0 .17	5.8 .09	.3	--	9			5
07/10/85 0850	5050 5050	22H/15E-36H01	M	72.0F 22.2C	7.3	180 162	3.0 .15	2.0 .16	--	--	--	--	2.0 .08	14.0 .23	.2	--	16			5
07/10/85 0800	5050 5050	22H/15E-36O01	M	62.0F 16.7C	7.2	240 235	17 .65	11 .90	--	--	--	--	3.0 .08	1.5 .02	.0	--	88			5
07/10/85 1345	5050 0000	22H/16E-06J04	M	53.0F 11.7C	7.2	500	--	--	--	--	--	--	--	--	--				5	
07/10/85 1300	5050 5050	22H/16E-06R02	M	79.0F 26.1C	7.4	240 206	2.0 .10	3.0 .23	--	--	--	--	7.0 .20	17.0 .27	.3	--	18			5
07/10/85 1305	5050 5050	22H/16E-07G01	M	75.0F 23.9C	7.2	280 213	6.0 .30	6.0 .49	--	--	--	--	2.0 .06	37.0 .60	.1	--	40			5
07/10/85 1050	5050 5050	22H/16E-08P01	M	61.0F 16.1C	7.5	340 344	9.0 .45	8.0 .66	--	--	--	--	8.0 .23	40.0 .65	.3	--	56			5
07/10/85 1040	5050 5050	22H/16E-17H01	M	61.0F 16.1C	7.6	370 339	15 .75	12 .99	--	--	--	--	6.0 .17	29.0 .47	.1	--	47			5

TABLE E-1 (CONTINUED)
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER L&P	TEMP	FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER				SAR	RES
					CA	MG	NA	K	CaCO3	SDA	CL	NO3	TURB	SiO2	TDS SUM	TH MCM		
SACRAMENTO HR FEATHER RIVER HU MIDDLE FORK FEATHER HA SIERRA VALLEY HSA																		
07/10/85	A A-11 A-11.C A-11.C4 22H/16E-19401	5050	61.0F	7.6	300	6.0	6.0	--	--	--	--	7.0	38.0	.2	--	--	44	
1030	5050	16.1C	250	.40	.49					.20	.61							
07/10/85	22H/16E-19401	5050	60.0F	7.3	250	11	6.0	25	7.6	88	6.0	6.0	11.0	.1	--	174	60	1.4
1010	5050	15.5C	6.2	232	.35	.66	1.09	.20	1.76	.17	.23	.18			132	0	1.8	
					22	26	44	8	75	7	10	8						
07/09/85	23M/14E-25602	5050	77.0F	6.8	396	45	17	23	--	155	--	10	31.0	4.2	--	102	0.7	
1235	5050	25.0C	8.2	396	2.25	1.40	1.0C	22	3.10	.28	.50				28	1.4		
					46	30												
07/09/85	23M/14E-25401	5050	67.0F	7.8	1300	--	--	--	--	--	--	--	--	--	--			
1300	0000	19.4C																
07/10/85	23M/14E-25402	5050	52.0F	7.8	1250	28	4.0	202	1.8	86	164	164	2.5	2.9	--	684	86	4.3
1500	5050	11.1C	7.1	1150	1.40	.33	6.79	.05	1.72	3.41	5.19	.04			--	641	1	12.3
					13	3	83	0	17	33	50	0						
07/09/85	23M/14E-26402	5050	8.2	360	6.0	.0	73	.5	134	15	19	.3	1.0	--	212	20	7.1	
1220	5050	8.4	346	.40	.00	3.1F	.01	2.68		.31	.54	.00			197	0	6.7	
				11	0	69	0	76		9	15	0						
07/09/85	23M/14E-35102	5050	62.0F	6.0	700	--	--	--	--	--	--	--	--	--	--			
1300	0000	16.7C																
07/10/85	23M/15E-25101	5050	7.5	300	5.0	4.0	--	--	--	--	28	6.4	1.1	--	--	29		
1145	5050	245	.25	.33						.79	.14							
07/10/85	23M/15E-26601	5050	83.0F	7.2	610	11	4.0	80	--	37	--	93	63.0	1.9	--	60	4.3	
1200	5050	26.3C	6.3	559	.35	.66	3.48	74		2.68	1.02				24	1.8		
					12	14												
07/10/85	23M/15E-26801	5050	80.0F	7.5	600	5.0	4.0	--	--	--	66	20.0	3.7	--	29			
1210	5050	26.6C			.25	.33				2.43	.32							
07/11/85	23M/15E-34001	5050	74.0F	7.2	380	11	6.0	46	4.3	142	3.0	31	.0	1.0	--	261	69	2.7
1430	5050	23.3C	7.8	347	.35	.66	2.09	.11	2.84	.06	.87	.00			191	0	3.9	
					16	19	61	3	75	2	23	0						
07/10/85	23M/15E-36601	5050	85.0F	7.3	460	4.0	4.0	--	--	--	53	22.0	2.4	--	26			
1220	5050	29.4C	430	.20	.33					1.49	.35							
07/10/85	23M/16E-29601	5050	60.0F	7.1	300	20	12	--	--	--	5.0	16.0	.0	--	100			
1120	5050	15.5C	264	1.00	.99					.14	.26							
07/10/85	23M/16E-30601	5050	65.0F	7.2	230	20	10	18	2.0	115	6.0	4.0	5.3	.1	--	166	91	0.8
1240	5050	14.3C	6.5	252	1.00	.82	.78	.05	2.30	.12	.11	.09			134	0	1.3	
					38	31	29	2	88	5	4	3						
07/10/85	23M/16E-30801	5050	77.0F	7.5	260	5.0	4.0	--	--	--	17	6.6	.8	--	29			
1130	5050	25.0C	209	.25	.33					.48	.11							
07/10/85	23M/16E-32001	5050	55.0F	7.8	180	5.0	4.0	--	--	--	2.0	5.3	.1	--	29			
1400	5050	12.8C	178	.25	.33					.06	.09							
NORTH FORK FEATHER HA MOUNT HARKNESS HSA																		
07/08/85	A-11.0 A-11.04 27H/08E-10601	5050	57.0F	7.5	140	--	--	--	--	--	--	--	--	--	--			
1400	0000	13.9C																
07/08/85	27H/08E-16101	5050	62.0F	6.8	100	--	--	--	--	--	--	--	--	--	--			
1900	0000	5.6C																
07/08/85	28H/07E-03401	5050	65.0F	6.8	92	--	--	--	--	--	--	--	--	--	--			
1925	0000	16.3C																

TABLE E-1 (CONTINUED)

MINERAL ANALYSES OF GROUND WATER

[illegible]

TABLE E-1 (CONTINUED)
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEST	FIELD		MINERAL CONSTITUENTS IN								MILLIGRAMS PER LITER				MILLIEQUIVALENTS PER LITER				MILLIGRAMS PER LITER				REMARKS
			LABORATORY	PW	EC	CA	MG	NA	K	PERCENT		VALU	SIO4	CL	NO3	TJPA	SIO2	TDS	TH	SAR	RSC				
										REACTANCE	REACTANCE														
	A A-13 A-13.4	SACRAMENTO WA TEHAMA WIL RED BLUFF NA																							
08/12/85 1530	5701	22N/01E-04A03 M	71.4F 22.0C	7.7	230	1.8 34	1.4 43	1.3 21	2.8 2	11.4 44	2.30	5.0 10	4 10	3.0 2	--	11 71.0	204 205	104 0	0.6 0.6	F					
06/24/85 1020	5050 0000	22N/01E-04C01 M	71.0F 21.6C	7.0	380	--	--	--	--	--	--	--	--	--	--	--	--	--	--						
06/24/85 1030	5050 0000	22N/01E-05F01 M	72.0F 22.2C	7.1	320	--	--	--	--	--	--	--	--	--	--	--	--	--	--						
12/26/84	2328 9580	22N/01E-09J02 M		7.3	351	--	--	--	--	--	--	--	--	7.0 11	--	--	--	--	--						
06/29/85	5050 9580		7.7	315	--	--	--	--	--	--	--	--	--	18.0 24	--	--	--	--	--						
12/26/84	2328 9580	22N/01E-09L01 M		6.8	728	--	--	--	--	--	--	--	--	26.0 42	--	--	--	--	--						
06/29/85	5050 9580		7.7	670	--	--	--	--	--	--	--	--	--	26.0 42	--	--	--	--	--						
06/17/85 0800	5701 5701	22N/01E-10X01 M	68.0F 20.0C	7.4	220	1.2 25	1.6 54	1.1 20	1.4 2	100 44	4.0	4.0 3	4.0 10	--	10 64.0	181 170	96 0	0.5 0.7	F						
12/26/84	2328 9580	22N/01E-13001 M		7.8	216	--	--	--	--	--	--	--	--	11.0 18	--	--	--	--	--						
07/17/85	5050 9580		7.4	215	--	--	--	--	--	--	--	--	--	11.0 18	--	--	--	--	--						
07/17/85	2328 9580	22N/01E-13604 M		7.2	370	--	--	--	--	--	--	--	--	34.0 55	--	--	--	--	--						
12/26/84	2328 9580	22N/01E-14X01 M		7.4	486	--	--	--	--	--	--	--	--	33.0 53	--	--	--	--	--						
06/29/85	2328 9580		7.0	240	--	--	--	--	--	--	--	--	--	4.0 04	--	--	--	--	--						
12/26/84	2328 9580	22N/01E-15C03 M		6.8	884	--	--	--	--	--	--	--	--	42.0 68	--	--	--	--	--						
06/29/85	2328 9580		7.2	1760	--	--	--	--	--	--	--	--	--	46.0 74	--	--	--	--	--						
06/17/85 0815	5701 5701	22N/01E-15L01 M	64.4F 18.0C	7.4	235	1.2 24	1.6 42	1.3 23	1.2 1	102 44	5.0	4.0 10	11.0 19	--	10 94.0	184 174	96 0	0.6 0.6	F						
08/12/85 1304	5701 5701	22N/01E-16X01 M	66.2F 19.0C	7.8	210	1.7 33	1.5 1.23	1.0 48	1.7 2	11.4 44	2.30 44	3.0 06	4.0 17	2.0 03	--	11 64.0	192 192	102 0	0.4 0.7	F					
12/26/84	2328 9580	22N/01E-16X02 M		7.3	438	--	--	--	--	--	--	--	--	28.0 45	--	--	--	--	--						
06/20/85	2328 9580		7.5	380	--	--	--	--	--	--	--	--	--	18.0 29	--	--	--	--	--						
12/26/84	2328 9580	22N/01E-16X01 M		6.8	530	--	--	--	--	--	--	--	--	15.0 24	--	--	--	--	--						
06/20/85	2328 9580		7.5	342	--	--	--	--	--	--	--	--	--	10.0 16	--	--	--	--	--						

TABLE E-1 (CONTINUED)

MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER				MILLIGRAMS PER LITER						SAP ASAP	PERM												
				CA	MG	NA	K	PERCENT REACTANCE VALUE		TURB	SiO2	TDS			TH	SAP															
								CACO3	SO4			CL	NO3	TOTAL			SUM			MG/L											
A A-13 A-13.0																				SACRAMENTO HQ TENAMA MU DEO BLUFF NA											
12/26/84	2328 9580		6.8 705	--	--	--	--	--	--	--	31.0 .50	--	--																		
06/20/85	2328 9580		7.5 650	--	--	--	--	--	--	--	35.0 .56	--	--						5												
12/28/84	2328 9580		6.9 370	--	--	--	--	--	--	--	15.0 .24	--	--						5												
06/20/85	2328 9580		7.3 834	--	--	--	--	--	--	--	40.0 .65	--	--						5												
09/17/83	5050 1100	37.0F 13.9C	7.0 380 8.5 390	28 1.40 36	22 1.01 47	13 .05 17	--	134 2.68	--	13 .42	25.0 .40	--	--			161 27	0.5 0.9		5												
12/26/84	2328 9580		7.1 1070	--	--	--	--	--	--	--	12.0 .19	--	--						5												
06/20/85	2328 9580		7.4 278	--	--	--	--	--	--	--	11.0 .18	--	--						5												
08/12/85	3701 1250	66.4F 18.0C	7.6 215	19 .95 38	12 .99 40	12 .52 21	1.0 .03 1	105 2.10 83	3.0 .10 4	8.0 .23 9	6.0 .10	--	.1 9	184 56.0	98 104	0 0	0.5 0.6		5												
06/17/83	3701 0950	71.6F 22.0C	7.6 220	10 .50 21	16 1.32 55	12 .52 22	1.5 .04 2	100 2.00 88	4.0 .08 4	5.0 .14 6	4.0 .06 3	--	.1 3	174 66.0	85 178	0 0	0.6 0.6		5												
06/17/83	3701 1015	68.2F 19.0C	7.2 430	38 1.90 42	22 1.01 40	18 .78 17	1.6 .04 1	174 3.48 77	10 .21 3	13 .42 9	24.0 .39 0	--	.0 45.0	278 278	186 12	0.6 1.2			5												
06/17/83	3701 0917	68.2F 19.0C	7.3 380	33 1.63 42	19 1.36 39	16 .7C 18	1.5 .04 1	134 3.08 77	10 .21 5	13 .42 11	18.0 .29 7	--	.0 45.0	249 238	162 7	0.5 1.0			5												
09/17/83	3050 1430	65.0F 20.0C	6.8 320 6.5 311	22 1.10 34	16 1.32 41	14 .03 28	--	135 2.70	--	12 .34	6.2 .10	--	--			121 0	0.8 1.3		5												
08/12/83	3701 1600	64.4F 18.0C	7.4 305	28 1.40 41	17 1.48 41	13 .57 17	1.5 .04 1	137 2.74 81	6.0 .12 4	13 .37 11	9.0 .15 4	--	.1 40.0	210 219	140 3	0.5 0.9			5												
12/26/84	2328 9580		6.8 820	--	--	--	--	--	--	--	23.0 .37	--	--						5												
06/20/85	2328 9580		7.3 655	--	--	--	--	--	--	--	16.0 .26	--	--						5												
09/17/83	3050 1130	65.0F 18.3C	7.0 225 8.4 229	17 .85 36	12 .99 42	12 .52 22	--	96 1.92	--	9.0 .25	2.2 .04	--	--			92 0	0.5 0.6		5												
12/26/84	2328 9580		7.1 323	--	--	--	--	--	--	--	100 1.61	--	--						5												
06/20/85	2328 9580		7.1 860	--	--	--	--	--	--	--	61.0 1.31	--	--						5												
12/26/84	2328 9580		6.6 775	--	--	--	--	--	--	--	31.0 .50	--	--						5												
06/20/85	2328 9580		7.6 842	--	--	--	--	--	--	--	21.0 .34	--	--						5												
12/26/84	2328 9580		7.0 650	--	--	--	--	--	--	--	31.0 .50	--	--						5												
06/20/85	2328 9580		7.3 745	--	--	--	--	--	--	--	26.0 .42	--	--						5												

TABLE E-1 (CONTINUED)
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLE ID	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER PERCENT REACTANCE VALUE				TDS TH CAR REM			
				CA	MG	NA	K	CaCO3	SO4	CL	NO3	R	F	TDS SUM	TH NPH	CAR ASAP	REM		
SACRAMENTO HR TENAMA MU RED BLUFF WA																			
A A-13 A-13.8																			
22N/01E-33G02 M																			
12/26/84	232R 04A0	7.0	845	--	--	--	--	--	--	--	52.0 .84	--	--						
06/19/85	232R 0580	7.2	700	--	--	--	--	--	--	--	47.0 .76	--	--						
22N/01E-33J01 M																			
12/26/84	232R 0580	7.1	494	--	--	--	--	--	--	--	31.0 .50	--	--						
06/19/85	232R 0580	7.4	420	--	--	--	--	--	--	--	31.0 .50	--	--						
22N/01E-33N02 M																			
09/17/85	5050 1300	60.0F 15.9C	7.1 8.4	220 243	20 1.00	13 1.07	11 .48	101 2.02	--	9.0 .25	8.8 .14	--	--	104 3	0.5 0.7				
22N/02E-17E01 M																			
06/24/85	5050 1110	7.1	220	--	--	--	--	--	--	--	--	--	--						
22N/01V-29C01 M																			
07/30/85	5050 1220	66.0F 18.9C	7.3	640	--	--	--	--	--	--	--	--	--						
22N/02V-03A04 M																			
07/30/85	5050 1145	66.0F 18.9C	7.4	750	--	--	--	--	--	--	--	--	--						
22N/02V-03A05 M																			
07/30/85	5050 1155	66.0F 18.9C	7.2 8.3	850 684	75 3.74	42 3.45	31 1.35	1.0 .03	245 4.90	61 1.27	56 1.58	52.0 .84	.1 10	--	469 465	360 115	0.7 1.7	M C	
22N/02V-04C02 M																			
07/30/85	5050 1130	0 F 18 C	7.2	590	--	--	--	--	--	--	--	--	--						
22N/02V-07N01 M																			
07/30/85	5050 1110	73.0F 22.8C	7.2	530	--	--	--	--	--	--	--	--	--						
22N/03V-06N01 M																			
07/30/85	5050 1045	0000	7.8	510	--	--	--	--	--	--	--	--	--						
23N/01V-09L01 M																			
06/24/85	5050 0930	66.0F 18.9C	7.1	625	--	--	--	--	--	--	--	--	--						
23N/01V-16R01 M																			
06/24/85	5050 1000	65.0F 18.3C	7.4	505	--	--	--	--	--	--	--	--	--						
23N/02V-04A02 M																			
06/18/85	5050 1345	63.0F 17.2C	7.0	460	--	--	--	--	--	--	--	--	--						
23N/02V-04A04 M																			
06/18/85	5050 1335	64.0F 17.8C	7.0	485	--	--	--	--	--	--	--	--	--						
23N/02V-05A01 M																			
06/08/85	5050 1350	71.0F 21.6C	7.8	330 333	20 1.00	15 1.23	--	--	--	5.0 .14	--	--	--	112					
23N/03V-27N01 M																			
06/19/85	5050 1150	7.4 8.3	425 435	40 2.00	18 1.48	21 .91	--	168 3.36	--	21 .59	10.0 .16	--	--	174 6	0.7 1.4				
23N/03V-35R02 M																			
06/17/85	5050 1205	74.0F 23.3C	7.3	400 407	41 2.05	16 1.32	--	--	--	20 .56	--	--	--	168					
24N/01V-36A02 M																			
06/18/85	5050 1215	0000	7.3	267	--	--	--	--	--	--	--	--	--						

TABLE E-1 (CONTINUED)

MINERAL ANALYSES OF GROUND WATER

[illegible]

TABLE E-1 (CONTINUED)

MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLE ID	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN PERCENT	MILLIGRAMS PER LITER										MILLIGRAMS PER LITER										REMARKS
					PERCENT REACTANCE VALLE										PERCENT REACTANCE VALLE										
					CA	MG	NA	K	CL	NO3	SO4	CO3	SiO2	Fe	SiO2	Fe	SiO2	Fe	SiO2	Fe	SiO2				
SACRAMENTO HR TEHAMA HILL PER PLUFF HA																									
06/19/85 1514	5050 0000	26N/03W-36F01 A-13 A-13,A	68.0F 20.0C	7.7	300	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5	
06/19/85 1500	5050 0006	26N/03W-36F01	74.0F 23.3C	7.6	425	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5	
06/19/85 1750	5050 0000	26N/04W-10001		7.6	380	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5	
06/19/85 1029	5050 0000	27N/02W-30C02	75.0F 23.9C	7.0	295	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5	
06/06/85 1400	5050 5050	27N/03W-03M01	74.0F 23.3C	7.0 7.9	700 680	28 1.40	12 .99	96 3.92	5.3 .14	128 2.56	2.0 .04	134 3.78	1.0 .02	1.4 .00	-- --	418 350	120 0	3.6 1.9	-- --	-- --	-- --	-- --	-- --	5	
06/06/85 1545	5050 5050	27N/03W-03N01	72.0F 22.2C	7.4 8.0	200 270	22 1.10	49 .49	31 1.35	2.8 .07	128 2.56	8.0 .17	9.0 .25	0.0 .00	0.0 .00	-- --	209 156	110 0	1.9 2.3	E T	-- --	-- --	-- --	-- --	5	
06/05/85 1533	5050 5050	27N/03W-03P02	72.0F 22.2C	7.6 8.1	360 366	29 1.45	11 .90	36 1.31	3.4 .09	127 2.56	39 .91	15 .42	0.0 .00	0.0 .00	-- --	271 204	118 0	1.2 2.0	E T	-- --	-- --	-- --	-- --	5	
06/05/85 1340	5050 5050	27N/03W-03P03	73.0F 22.8C	8.0 8.2	285 281	16 .70	5.0 .27	38 1.65	3.0 .08	123 2.46	--	12 .34	1.1 .00	-- --	-- --	60 0	2.1 3.0	-- --	-- --	-- --	-- --	-- --	-- --	5	
07/01/85 1000	5050 5050	27N/03W-03P04	65.0F 18.3C	7.9 8.4	303 280	19 .05	5.0 .41	36 1.57	2.9 .07	125 2.50	7.0 .15	10 .28	0.0 .00	0.0 .00	-- --	208 155	68 0	1.9 2.8	E T	-- --	-- --	-- --	-- --	5	
06/19/85 0740	5050 0000	27N/03W-04M01	68.0F 20.0C	7.3	315	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5	
06/04/85 1100	5050 5050	27N/03W-09P01	68.0F 20.0C	7.1 7.6	290 283	26 1.30	13 .43	14 35	2.1 .20	130 2.60	7.0 .15	9.0 .24	4.4 .07	0.0 .00	-- --	201 149	119 0	0.6 1.0	E T	-- --	-- --	-- --	-- --	5	
08/23/85 1000	5050 5050	27N/03W-09P02		7.5	415	40 2.00	22 .88	12 .48	2.7 .07	145 3.10	31 .65	11 .31	34.0 .55	0.0 .00	-- --	370 246	191 36	0.4 0.7	E T	-- --	-- --	-- --	-- --	5	
06/04/85 1010	5050 5050	27N/03W-10R01	68.0F 20.0C	7.3 7.8	340 362	24 1.20	16 .32	23 1.00	2.6 .07	92 1.84	62 1.24	14 .39	4.4 .07	0.0 .00	-- --	272 201	126 34	0.9 1.4	E T	-- --	-- --	-- --	-- --	5	
06/06/85 1105	5050 5050	27N/03W-10R02	72.0F 22.2C	7.4 8.0	280 274	16 1.10	5.0 .32	38 1.22	3.0 .08	123 2.46	36 .75	7.0 .20	7.5 .12	0.0 .00	-- --	230 195	73 0	1.4 1.8	E T	-- --	-- --	-- --	-- --	5	
06/06/85 1420	5050 9600	27N/03W-10C01		7.3	355	24 1.20	12 .99	33 1.32	3.2 .10	127 2.54	31 .65	16 .44	3.0 .06	0.0 .00	-- --	257 199	110 0	1.4 2.3	E T	-- --	-- --	-- --	-- --	5	
06/06/85 1140	5050 5050	27N/03W-10G01	71.0F 21.6C	7.6 8.1	420 415	15 .75	7.0 .48	60 2.61	3.8 .10	113 2.26	27 .56	43 1.21	2.4 .04	0.0 .00	-- --	290 226	66 0	3.2 4.4	E T	-- --	-- --	-- --	-- --	5	
06/06/85 1204	5050 5050	27N/03W-10G02	72.0F 22.2C	7.3 7.4	365 354	22 1.10	16 .32	28 1.22	3.2 .08	108 2.16	26 .52	23 .58	6.2 .10	0.0 .00	-- --	258 192	121 13	1.1 1.8	E T	-- --	-- --	-- --	-- --	5	
07/01/85 0930	5050 5050	27N/03W-10G03	66.0F 18.9C	7.0 8.3	400 551	44 2.20	34 .80	25 1.04	3.0 .10	147 3.34	43 1.10	26 .73	36.0 .54	0.0 .00	-- --	386 322	250 83	0.7 1.4	E T	-- --	-- --	-- --	-- --	5	
06/04/85 1030	5050 5000	27N/03W-10G01	64.0F 17.8C	8.0 8.0	285 283	15 .75	6.0 .49	38 1.65	3.2 .10	123 2.46	6.0 .12	11 .31	3.0 .06	0.0 .00	-- --	214 153	62 0	2.1 3.0	E T	-- --	-- --	-- --	-- --	5	
07/11/85 1933	5050 5050	27N/03W-11I01	70.0F 21.1C	7.2 7.2	450 454	9.0 10	8.0 15	72 73	1.8 1	98 4*	18 9	60 4.5	3.1 1	0.0 .00	-- --	296 240	56 0	4.2 5.2	E T	-- --	-- --	-- --	-- --	5	

TABLE E-1 (CONTINUED)
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAR	TEMP	FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTIVE VALUE				MILLIGRAMS PER LITER PERCENT REACTIVE VALUE				REMARKS	
					Ca	Mg	Na	K	CaCO3	SO4	Cl	NO3	TH	SI	PH	NH		AS
A-13 A-13.8																		
SACRAMENTO NR TENAMA HU RED BLUFF HA																		
07/19/85 0910	5050 5050	70.0F 21.1C	7.2 8.0	600 616	13 11	9.0 .74	10C 4.35	1.7 .04	104 2.08	39 13	112 3.16	9.7 .16	2.2 --	--	379 349	70 0	5.2 7.0	S
27N/03W-11P01 M																		
07/19/85 0840	5050 5050	65.0F 18.3C	7.1 8.0	600 614	21 18	16 1.32	8C 3.46	1.4 .04	132 2.64	7.0 .15	93 2.42	26.0 .42	1.0 --	--	383 325	119 0	3.2 4.3	S
27N/03W-11P02 M																		
07/19/85 0805	5050 5050	67.0F 19.4C	7.2 8.2	980 980	24 13	18 1.48	143 6.22	2.5 .06	129 2.58	11 .23	219 6.18	2.3 .04	3.2 --	--	558 580	134 5	5.4 9.0	S
27N/03W-14C01 M																		
07/19/85 0830	5050 5050	65.0F 18.3C	7.6 8.2	540 483	22 22	15 1.23	6C 5.2	2.4 .1	170 3.40	9.0 .19	36 1.62	20.0 .32	.8 --	--	310 267	117 0	2.4 4.3	S
27N/03W-14C02 M																		
06/28/85 5050	5050 5050	69.0F 20.5C	7.3 8.4	460 459	19 20	14 1.15	59 2.57	2.2 .06	166 3.32	9.0 .19	31 4	20.0 .32	.8 --	--	300 255	105 0	2.4 4.3	S
07/19/85 0945	5050 5050	67.0F 19.4C	7.2 8.2	500 542	21 21	15 1.05	62 2.7C	2.3 .06	113 2.26	1.0 .12	91 2.57	9.3 .14	1.4 --	--	319 276	114 1	2.5 4.0	S
27N/03W-14C02 M																		
06/28/85 5050	5050 5050	67.0F 19.4C	7.1 8.4	470 465	39 36	26 1.95	2C 2.14	2.4 .06	196 3.80	12 .29	28 .62	21.0 .32	.2 --	--	298 267	205 15	0.9 1.8	S
07/22/85 0930	5050 5050	65.0F 18.3C	7.0 8.2	500 494	38 36	26 1.90	2C 2.14	2.1 .22	194 3.88	12 .25	28 .79	21.0 .34	.2 --	--	316 272	202 8	0.9 1.8	S
27N/03W-14N01 M																		
06/04/85 1310	5050 5050	61.0F 16.1C	6.7 8.1	700 694	37 28	32 2.63	5C 2.16	1.4 .04	161 3.22	17 .35	98 2.76	23.0 .37	1.1 --	--	430 356	224 63	1.5 2.9	S
27N/03W-15C01 M																		
06/04/85 0940	5050 5050	65.0F 18.3C	6.9 8.1	575 569	49 24	32 2.45	16 2.63	2.0 .05	211 4.22	28 .58	28 .79	27.0 .44	.0 --	--	360 311	254 43	0.9 1.1	S
27N/03W-15C02 M																		
06/04/85 0950	5050 5050	74.0F 23.3C	7.3 8.2	320 306	23 38	9.0 1.15	24 1.74	3.6 .09	117 2.34	12 .25	13 .37	7.5 .17	.1 --	--	229 182	94 0	1.7 1.7	S
27N/03W-14E01 M																		
06/04/85 0925	5050 5050	65.0F 18.3C	7.0 8.3	640 617	50 39	36 2.50	22 2.96	2.3 .06	221 4.42	19 .40	43 1.21	27.0 .44	.4 --	--	401 332	273 52	0.6 1.3	S
27N/03W-14C02 M																		
06/06/85 0905	5050 5050	66.0F 18.9C	6.8 7.4	710 693	31 23	28 1.55	6C 2.87	1.6 .04	174 3.48	13 .27	105 2.96	5.8 .1	1.3 --	--	412 356	193 19	2.1 4.1	S
27N/03W-15C03 M																		
06/06/85 1345	5050 5050	72.0F 22.2C	7.1 7.7	635 602	30 26	24 1.97	53 2.31	1.6 .04	139 2.78	16 .17	97 2.74	8.1 .13	1.1 --	--	382 306	174 35	1.7 3.3	S
27N/03W-15C02 M																		
06/05/85 1515	5050 5050	70.0F 21.1C	6.8 7.9	675 647	46 35	37 2.30	28 3.04	1.6 .04	184 3.68	27 .58	69 1.95	27.0 .44	.4 --	--	413 346	267 63	0.7 1.6	S
27N/03W-15C03 M																		
06/06/85 1025	5050 5050	70.0 8.0	6.50 640	31 1.55	28 2.30	54 2.35	1.3 .03	151 3.02	13 .27	98 2.79	8.8 .14	1.1 --	--	--	408 327	193 42	1.7 3.3	S
27N/03W-15N01 M																		
06/04/85 0905	5050 5050	68.0F 20.0C	7.1 8.3	660 652	48 36	31 2.40	38 2.95	2.7 .07	168 3.62	20 .42	60 1.69	34.0 .55	.7 --	--	427 352	248 52	1.1 2.3	S
27N/03W-15N02 M																		
06/06/85 0915	5050 5050	70.0F 21.1C	6.9 7.6	644 627	38 30	33 1.90	46 2.71	1.5 .04	19C 3.80	20 .42	66 1.92	16.3 .26	.6 --	--	492 331	231 41	1.1 2.4	S
27N/03W-15P01 M																		
06/06/85 0850	5050 5050	71.0F 21.6C	7.1 7.8	520 504	27 27	22 1.35	43 1.91	1.6 .04	144 2.88	13 .27	58 1.66	18.0 .29	.6 --	--	317 270	148 14	1.5 2.7	S
27N/03W-15C01 M																		
06/06/85 0940	5050 5050	68.0F 20.0C	7.5 8.0	350 345	31 22	16 1.55	17 2.32	2.5 .06	156 3.12	12 .25	6.0 1.17	8.4 .14	.0 --	--	246 196	144 8	0.6 1.1	S

TABLE E-1 (CONTINUED)

MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAR	TEMP	FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER PERCENT REACTANCE VALUE				REMARKS	
					CA	MG	NA	K	CaCO3	SO4	CL	NO3	TDS SiO2	SiO2	SiO2	SiO2		
A-13 A-13.R																		
SACRAMENTO RIVER TEMAMA HILL RED BLUFF NA																		
08/23/85	6000																	
1630	5050	8.6	460		39	26	17	1.3	155	32	14	38.0	+	--	290	205	0.5	
					1.95	2.14	.74	.03	3.10	.67	.39	.61	--	--	260	50	1.0	
					40	44	15	1	65	14	8	11						
06/24/85	5050	64.0F	6.9	295	29	14	10	1.2	96	23	4.0	18.0	0	--	188	147	0.4	
	5050	17.4C	8.4	283	1.45	1.44	.44	.03	1.92	.48	.17	.29	--	--	163	51	0.6	
					43	44	13	1	.67	17	6	10					5	
06/18/85	5050	71.0F	7.1	223	14	13	14	--	97	--	6.0	0	--	--		98	0.6	
6724	5050	21.4C	7.9	218	.90	1.07	.61	.24	1.94	--	.17	.00	--	--		2	0.9	
					35	41											5	
06/14/85	5050	7.9	240	--	--	--	--	--	--	--	--	--	--	--				
0950	0000																5	
06/05/85	5050	7.3	230		14	8.0	20	.4	98	5.0	4.0	4.2	0	--	150	64	1.1	
1620	0000	8.0	220		.70	.66	.87	.01	1.96	.10	.11	.10	--	--	116	0	1.4	
					31	29	35	0	.86	4	5	4					T	
06/04/85	4050	64.0F	7.5	275	22	10	18	--	121	--	4.0	4.6	--	--		96	0.8	
6730	5050	17.4C	8.3	261	1.10	.82	.76		2.42	--	.11	.07	--	--		0	1.3	
					41	30	29										5	
09/13/85	5050	66.0F	7.6	235	22	9.0	14	1.5	100	4.0	3.0	5.2	0	--	166	92	0.6	
1355	5050	18.9C	8.4	234	1.10	.74	.61	.04	2.18	.08	.08	.08	--	--	124	0	1.0	
					44	30	24	2	90	3	3	3					T	
09/13/85	5050	66.0F	6.8	305	29	13	13	.6	119	13	4.0	13.0	0	--	191	126	0.5	
1335	4050	18.9C	8.4	300	1.45	1.07	.57	.02	2.38	.27	.17	.21	--	--	159	7	0.9	
					47	34	18	1	79	9	6	7						
09/13/85	5050	65.0F	7.0	320	29	14	15	1.2	138	14	7.0	2.0	0	--	186	130	0.6	
1330	5050	18.3C	8.5	304	1.45	1.15	.65	.03	2.76	.29	.20	.03	--	--	165	0	1.0	
					44	35	20	1	.84	9	6	1						
06/04/85	5050	66.0F	7.3	295	24	14	13	1.7	113	17	6.0	16.0	+	--	204	118	0.5	
0800	5050	18.9C	8.2	294	1.20	1.19	.57	.04	2.26	.35	.17	.26	--	--	160	9	0.9	
					41	39	19	1	74	12	6	9					T	
08/20/85	5060				--	--	--	--	--	--	--	17.0	--	--	.2			
5060												.27	--	--			5	
08/25/85	5050	63.0F	7.1	645	20	16	78	2.6	121	8.0	103	8.8	1.3	--	355	116	3.2	
1410	5050	17.2C	8.3	602	1.00	1.32	3.36	.07	2.42	.17	2.90	.14	--	--	310	0	5.1	
					17	23	59	1	43	3	52	2						
07/15/85	5050	62.0F	7.1	580	21	16	70	2.3	130	17	81	13.0	1.6	--	347	119	2.8	
0950	4050	16.7C	8.1	576	1.05	1.32	3.05	.06	2.60	.35	2.28	.21	--	--	300	0	4.7	
					19	24	56	1	48	6	42	4						
06/21/85	5050	64.0F	7.3	555	25	19	57	1.7	138	12	71	13.0	1.1	--	327	141	2.1	
1115	5050	17.4C	8.2	539	1.25	1.56	2.48	.04	2.76	.25	2.00	.21	--	--	283	3	3.7	
					23	29	47	1	53	5	38	4						
06/21/85	5050	64.0F	7.0	515	26	19	48	1.1	120	23	61	18.0	0	--	312	143	1.7	
1025	5050	17.4C	8.0	506	1.30	1.36	2.00	.03	2.40	.44	1.72	.29	--	--	267	23	2.9	
					27	32	41	1	49	10	35	6						
06/04/85	5050	63.0F	7.0	585	24	20	61	--	147	--	71	18.0	--	--		142	2.2	
1300	5050	17.2C	8.2	574	1.20	1.64	2.65		2.94	--	2.00	.29	--	--		0	4.0	
					22	30	48										5	
08/21/85	5050	67.0F	7.1	363	29	22	12	1.8	156	17	7.0	16.0	+	--	244	163	0.4	
1320	5050	19.4C	7.9	362	1.45	1.81	.52	.05	3.00	.35	.20	.26	--	--	195	13	0.8	
					38	47	14	1	79	9	5	7						
08/21/85	4050	61.0F	6.8	600	38	28	38	1.4	141	59	53	17.0	+	--	362	210	1.1	
1050	5050	18.1C	8.1	578	1.90	2.10	1.65	.04	2.42	1.23	1.49	.27	--	--	320	69	2.2	
					32	39	28	1	49	21	26	5						
08/26/85	5050	62.0F	7.1	440	20	14	56	2.2	130	10	41	11.0	0	--	268	108	2.3	
1520	5050	16.7C	8.3	435	1.00	1.15	2.44	.06	2.60	.40	1.16	.18	--	--	242	0	3.9	
					22	23	52	1	60	9	27	4					5	
07/15/85	5050	62.0F	7.1	540	30	20	51	2.8	135	31	58	26.0	0	--	339	197	1.8	
0920	5050	16.7C	7.9	549	1.50	1.64	2.22	.07	2.70	.65	1.64	.42	--	--	301	22	3.2	
					28	30	41	1	50	12	30	8						

TABLE E-1 (CONTINUED)
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAR	TEMP LABORATORY PH	FIELD EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER				REM		
				CA	MG	NA	K	CACT'S	SO4	CL	NO3	THRS	STO2	TDS	TH		SAP	
.....																		
A-13 A-13.8		SACRAMENTO HR TENAWA HU RED BLUFF NA																
06/28/85	5050	27N/03W-28402 M	64.0F 17.8C	7.1 8.4	340 331	27 1.35	18 1.48	14 83	2.0 0.8	126 2.52	26 54	6.0 17	12.0 10	+2 --	210 186	142 16	0.7 1.2	5
06/21/85	5050	27N/03W-28C03 M	71.0F 22.8C	7.1 8.0	235 227	26 1.30	12 1.00	10 44	-- 1.78	8.0 1.78	-- --	4.0 11	6.5 10	-- --	115 26	0.4 0.6		
06/18/85	5050	27N/03W-31401 M	69.0F 20.5C	7.5 8.0	265 260	22 1.10	10 82	15 83	1.2 0.3	23 46	-- --	3.0 0.8	4.0 0.8	-- --	96 73	0.8 0.7		5
06/18/85	5050	27N/04W-01402 M	70.0F 21.1C	7.3	242	--	--	--	--	--	--	--	--	--	--	--		5
06/18/85	5050	27N/04W-03J01 M		7.3	242	--	--	--	--	--	--	--	--	--	--	--		5
06/27/85	5050	27N/04W-05602 M	71.0F 21.6C	7.7 8.3	300 301	22 1.10	15 1.23	22 94	7 0.2	152 3.04	3.0 0.6	5.0 14	3.6 0.6	+1 --	170 163	117 0	0.9 1.6	
06/18/85	5050	27N/04W-12P01 M	72.0F 22.2C	7.5	288	--	--	--	--	--	--	--	--	--	--	--		
06/18/85	5050	27N/04W-24C01 M	73.0F 22.8C	7.3	300	--	--	--	--	--	--	--	--	--	--	--		
06/19/85	5050	27N/04W-26J01 M	72.0F 22.2C	6.8	320	--	--	--	--	--	--	--	--	--	--	--		
06/18/85	5050	28N/03W-28A01 M	71.0F 21.6C	7.4	800	--	--	--	--	--	--	--	--	--	--	--		
06/18/85	5050	28N/03W-29601 M	67.0F 19.4C	7.1	558	--	--	--	--	--	--	--	--	--	--	--		
A-14 A-14.C A-14.C1		STONY CREEK HU FOULTS SPRINGS HA MIDDLE FORK STONY H54																
07/17/85	8200 5867	18N/06W-29C01 M	7.1	400	44 2.20 53	11 1.00 22	23 1.00 24	2.0 0.05 1	145 2.90 74	3.0 0.06 2	34 96 24	0 0.00 0	-- --	+2 --	225 204	195 10	0.8 1.5	5
A-17 A-17.A		REDDING HU ENTERPRISE FLAT HA																
07/01/85	5050	29N/03W-05602 M	68.0F 20.0C	6.8	210 209	15 0.75	12 0.90	--	--	--	--	3.0 0.8	--	--	87			5
07/01/85	5050	30N/03W-04P01 M	67.0F 19.4C	7.1	197	--	--	--	--	--	--	--	--	--	--	--		5
07/01/85	5050	30N/03W-18F02 M	73.0F 22.8C	7.1 8.3	203 201	15 0.75	13 1.07	8.0 33	-- 1.68	93 1.68	-- --	2.0 0.8	4.0 0.8	-- --	91 0	0.4 0.5		5
07/01/85	5050	30N/03W-34001 M	69.0F 20.5C	6.8	320	--	--	--	--	--	--	--	--	--	--	--		5
07/01/85	5050	30N/04W-01E01 M	65.0F 18.3C	7.3	180	--	--	--	--	--	--	--	--	--	--	--		5
07/01/85	5050	30N/04W-08R01 M	68.0F 20.0C	7.1	130	--	--	--	--	--	--	--	--	--	--	--		

TABLE E-1 (CONTINUED)
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLE ID	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN					MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER					MILLIGRAMS PER LITER					
				CA	MG	NA	K		CA	SO4	CL	NO3	TJPR	SI02	SIH	TH	ASAP	DEM	
.....																			
A-17 A-17.A		SACRAMENTO WA REDDING HU ENTERPRISE FLAT HA																	
07/01/RS 0945	5050 0000	30N/04W-15*03 M	6.9 OF 20.5C	6.8	205	--	--	--	--	--	--	--	--	--	--	--	--	5	
07/01/RS 0930	5050 0000	30N/04W-36N01 M	6.9 OF 20.0C	7.1	220	--	--	--	--	--	--	--	--	--	--	--	--	5	
07/01/RS 1500	5050 0000	31N/03W-05J01 M	7.1 OF 21.5C	6.7	215	--	--	--	--	--	--	--	--	--	--	--	--	5	
07/01/RS 1450	5050 0000	31N/03W-10N02 M	6.9 OF 18.3C	6.5	195	--	--	--	--	--	--	--	--	--	--	--	--	5	
07/03/RS 0845	5050 5050	31N/03W-12F01 M	6.9 OF 19.9C	7.0 A.2	182 180	1.0 .95	8.0 .66	9.0 .35	2.6 .07	84 1.68	3.0 .06	5.0 .14	1.9 .03	.0 7	-- 2	107 99	80 0	0.4 0.6	5
07/01/RS	5050 5050	31N/04W-12401 M	6.9 OF 20.5C	7.3	300 301	13 .65	9.0 .74	--	--	--	--	26 .73	--	--	--	--	70	--	5
07/01/RS 1430	5050 0000	31N/04W-15R01 M	7.2 OF 22.2C	7.1	220	--	--	--	--	--	--	--	--	--	--	--	--	5	
07/01/RS 1400	5050 0000	31N/04W-19N03 M	7.2 OF 22.2C	7.0	200	--	--	--	--	--	--	--	--	--	--	--	--	5	
07/01/RS 1340	5050 0000	31N/04W-20J01 M		7.0	240	--	--	--	--	--	--	--	--	--	--	--	--	5	
07/01/RS 1020	5050 0000	31N/05W-25K01 M	6.9 OF 20.0C	7.2	300	--	--	--	--	--	--	--	--	--	--	--	--	5	
07/03/RS 0900	5050 5050	32N/03W-35C01 M	7.3 OF 22.5C	6.8 6.7	375 373	23 1.15	1.4 1.32	27 1.17	2.5 .06	116 2.32	3.0 .06	4.5 1.27	.0 .60	.1 0	-- --	247 185	124 8	1.1 1.8	5
A-17.A		LOWER COTTONWOOD HA																	
07/01/RS 0745	5050 0000	29N/04W-11G04 M	6.8 OF 20.0C	7.1	180	--	--	--	--	--	--	--	--	--	--	--	--	5	
07/01/RS 0900	5050 0000	30N/04W-35R01 M	6.8 OF 20.0C	6.8	200	--	--	--	--	--	--	--	--	--	--	--	--	5	
A-23 A-23.C A-23.C1		PIT RIVER HU MCARTHUR HA RIG LAKE HSA																	
08/05/RS 1200	5050 5050	37N/05E-01C01 M	6.2 OF 16.7C	7.8 8.4	230 207	14 .70	5.0 .41	22 .96	-- 4.6	85 1.70	--	5.0 .14	--	.1	--	--	96 0	1.3 1.6	5
08/05/RS 0940	5050 0000	37N/05E-19C01 M	6.3 OF 17.2C	7.2	300	--	--	--	--	--	--	--	--	--	--	--	--	5	
08/05/RS 1145	5050 0000	37N/06E-19L01 M	6.2 OF 16.7C	7.7	355	--	--	--	--	--	--	--	--	--	--	--	--	5	
08/05/RS 1220	5050 0000	38N/06E-31N01 M	6.1 OF 14.1C	8.1	190	--	--	--	--	--	--	--	--	--	--	--	--	5	
A-23.D A-23.D1		RIG VALLEY HA RIG VALLEY HSA																	
08/05/RS 1345	5050 0000	37N/07E-02N01 M	6.7 OF 19.4C	7.3	230	--	--	--	--	--	--	--	--	--	--	--	--	5	

TABLE E-1 (CONTINUED)

MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAR	TEMP	FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN					MILLIGRAMS PER LITER					MILLIEQUIVALENTS PER LITER					MILLIGRAMS PER LITER					SAR	MEP
					CA	MG	NA	V		CaCO3	SO4	CL	NO3	VALU	Na	K	Ca	Mg	Na	K	Ca	Mg	Na	K		

A-23 SACRAMENTO HB																										
A-23 PIT RIVER HU																										
A-23.0 BIG VALLEY HA																										
A-23.01 RIFRER HSA																										
08/05/85	5050		60.0F	7.0	1280	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5
1450	0000		15.5C																							
30N/07E-02P01 M																										
08/05/85	5050		68.0F	7.1	540	31	18	4C	--	194	--	42	8.0	--	--	--	--	--	--	--	--	--	--	152	1.7	5
1415	5050		20.0C	8.5	519	1.55	1.48	2.13		3.86		1.18	.13										0	3.4		
30N/07E-23D01 M																										
08/05/85	5050		72.0F	7.3	220	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5
1330	0000		22.2C																							
30N/07E-24H00 M																										
08/05/85	5050		68.0F	7.1	190	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5
1230	0000		17.4C																							
30N/07E-32406 M																										
08/05/85	5050		62.0F	7.3	200	10	8.0	18	--	89	--	8.0	4.0	--	--	--	--	--	--	--	--	--	--	58	1.0	5
1245	5050		16.7C	8.4	182	1.50	1.48	2.13		1.78		.17	.06										0	1.3		
30N/08E-17K01 M																										
08/05/85	5050		66.0F	7.5	220	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5
1515	0000		18.9C																							
30N/08E-30P01 M																										
08/05/85	5050		68.0F	7.1	930	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5
1435	0000		18.3C																							
30N/09E-21L01 M																										
08/05/85	5050		70.0F	7.5	325	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5
1525	0000		21.1C																							
30N/07E-13D01 M																										
08/05/85	5050		63.0F	7.0	240	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5
1600	0000		17.2C																							
30N/08E-23402 M																										
08/05/85	5050		60.0F	6.9	260	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5
1620	0000		15.5C																							
30N/09E-24F20 M																										
08/05/85	5050		63.0F	7.4	185	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5
1630	0000		17.2C																							
A-23.E UPPER PIT RIVER HA																										
A-23.E1 CANBY HSA																										
08/05/85	5050		70.0F	7.2	260	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5
1755	0000		21.1C																							
41N/11E-10G02 M																										
08/05/85	5050		60.0F	8.4	460	1.0	.0	101	7.6	159	41	18	.4	.2	--	--	--	--	--	--	--	--	379	2	31.1	5
1745	5050		15.5C	8.7	460	.05	.00	4.39	.19	3.18	.85	.51	.01									26.9	0	0.0		
42N/10E-22G01 M																										
08/05/85	5050		67.0F	7.4	320	23	10	28	--	128	--	4.0	5.3	--	--	--	--	--	--	--	--	--	--	98	1.1	5
1655	5050		19.4C	8.4	309	1.15	.82	1.13		7.58		.11	.09										0	1.9		
42N/11E-18G01 M																										
08/05/85	5050		60.0F	7.4	180	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5
1715	0000		15.5C																							
A-23.E2 ALTURAS HSA																										
30N/13E-04G01 M																										
08/08/85	5050		70.0F	7.0	500	30	16	38	6.9	178	16	18	7.0	.0	--	--	--	--	--	--	--	--	373	1.4	1.2	
1320	5050		21.1C	8.7	476	1.05	1.32	1.57	.18	3.58	.33	.45	.60									274	0	2.4		
40N/13E-30P01 M																										
08/05/85	5050		73.0F	8.0	275	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5
1305	0000		22.4C																							
41N/12E-12L01 M																										
08/05/85	5050		64.0F	7.4	1000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5
1140	0000		17.4C																							
41N/12E-27P01 M																										
08/08/85	5050		75.0F	8.3	270	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1245	0000		23.9C																							

TABLE E-1 (CONTINUED)

MINERAL ANALYSES OF GROUND WATERS

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN	MILLIGRAMS PER LITER				MILLIEQUIVALENTS PER LITER				MILLIGRAMS PER LITER				PERM			
					CA	MG	NA	K	PERCENT CACO3	REACTANCE VALU	SO4	CL	NO3	TI	SI	TH		AS	AR	
.....																				
	A A-23 A-23-F A-23-E7 42N/11E-24A01 M	SACRAMENTO HR PIT RIVER HI UPPER PIT RIVER HA ALTIPAS HSA																		
04/05/85 1830	5050 0600	62.0F 16.7C	7.3	220	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	S
04/07/85 1830	5050 0600	65.0F 18.3C	7.7	340	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	S
04/08/85 1230	5050 5000	64.0F 20.0C	7.2	400 386	30 1.90 38	9.0 .74 19	34 1.48 36	9.0 .20 5	12*		26 .94 14	24 .46 18	8.4 .14 4	.9	--	287	112	1.4	E T	
04/09/85 1030	5050 0000	70.0F 21.1C	7.3	345	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	S
04/08/85 1044	5050 0000	62.0F 16.7C	7.4	310	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	S
04/08/85 1844	5050 0000	60.0F 15.5C	7.1	630	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	S
	A-24 A-24-A	LAKEVIEW HI DAVIS CREEK HA																		
04/05/85 1020	5050 0000	70 F 21 C	7.6	330	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	S
04/05/85 0900	5050 0000	63.0F 17.2C	7.0	310	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	S
04/06/85 1115	5050 5000	65.0F 18.3C	7.3	190 178	17 .85 45	4.0 .33 18	16 .7C 37	--	--	--	--	1.0 .03	--	.1	.4	--	99	0.0		
04/05/85 1100	5050 0000	56.0F 13.3C	6.9	185	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	S
04/06/85 1150	5050 5050	55.0F 12.8C	6.8	350 340	38 1.90 54	11 .70 26	16 .7C 3C	--	--	--	--	7.0 .20	--	--	--	--	140	0.0		

TABLE E-1 (CONTINUED)
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAR	TEMP	FIELD LABORATORY		MINERAL CONSTITUENTS					MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER				MILLIGRAMS PER LITER PERCENT REACTANCE VALUE				TDS 5107	TH 5107	SAR 4540	REM
			PH	EC	Ca	Mg	Na	K	CaCO3	SO4	CL	HOS	R	F	TU	P	A				
8-01 SAN JOAQUIN NR SAN JOAQUIN DELTA HU																					
08/01/85 1330	5050 5050		7.3 6.7	1315 1270	90 4.49 35	40 3.29 26	113 2.47 9.92 35	--	230 4.60	--	191 5.39	--	--	--	--	309 159	2.5 1.0				
07/10/85 0900	5050 5050	68 F 20 C	7.9 8.4	1277 1290	51 2.64 18	30 2.47 17	226 9.83 62	--	424 6.47	--	186 4.68	--	--	--	--	256 0	6.1 14.0				
08/16/85 1540	5701 5701	68 F 20 C	8.0 8.0	245	4.0 .20 7	2.0 .16 6	58 2.52 8.7	6 .02 1	119 2.38 40	4.0 .08 3	17 .48 16	1.0 .02 1	--	1 56.0	216	18 0	5.9 5.1				
09/05/85 1500	5701 5701	64 F 18 C	8.0 8.0	320	8.0 .40 13	4.0 .33 10	56 2.44 7c	9 .02 1	127 2.54 77	2.0 .04 1	24 .68 21	1.0 .02 1	--	1 55.0	228	38 0	4.0 4.8				
07/09/85 0830	5050 5050	66 F 19 C	8.1 8.0	927 948	18 .90 10	9.0 .74 8	178 7.74 82	2.8 .07 1	174 3.48 39	6.0 .12 1	191 5.39 20	0 .40 0	1.1 --	--	544 510	82 0	8.6 13.6				
07/24/85 1100	5701 5701	68 F 20 C	7.9 7.9	325	14 .70 21	4.0 .33 10	51 2.22 6.7	1.9 .05 2	132 2.64 40	11 .23 7	15 .42 13	1.0 .02 1	--	1 58.0	234	52 0	3.1 4.2				
08/21/85 1330	5701 5701	64 F 18 C	7.9 7.9	335	13 .85 16	6.0 .49 12	68 2.91 72	1.3 .03 1	164 3.28 79	1.0 .02 0	29 .92 20	1.0 .02 0	--	1 54.0	272	56 0	4.0 5.8				
07/24/85 1130	5701 5701	68 F 20 C	8.0 8.0	375	24 1.20 29	12 .99 24	43 1.87 4c	1.6 .04 1	178 3.12 77	12 .25 6	24 .68 17	1.0 .02 0	--	1 47.0	258	108 0	1.8 3.1				
09/05/85 1100	5701 5701	64 F 18 C	7.9 7.9	270	15 .75 27	6.0 .49 17	35 1.52 54	2.2 .06 2	113 2.26 70	8.0 .17 6	15 .42 15	1.0 .02 1	--	1 90.0	180	65 0	1.9 2.6				
02/21/85 1700	5050 0000	63 F 17 C		1245	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
05/02/85 1445	5050 0000			1134	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
06/05/85 1500	5050 0000			1124	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
07/02/85 1115	5050 0000			1172	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
08/01/85 1130	5050 0000			1128	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
02/21/85 1615	5050 0000			1734	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
05/02/85 1300	5050 0000			1782	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
06/05/85 1700	5050 0000			1664	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
07/02/85 0945	5050 0000			1626	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
08/01/85 1100	5050 0000			1614	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
02/21/85 1330	5050 0000	62 F 17 C		1740	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
05/02/85 1400	5050 0000			1673	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
06/05/85 1415	5050 0000			1660	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
07/02/85 1030	5050 0000			1684	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
08/01/85 1130	5050 0000			1710	--	--	--	--	--	--	--	--	--	--	--	--	--	--			

TABLE E-1 (CONTINUED)

MINERAL ANALYSES OF GROUND WATERS																			
DATE TIME	SAMPLER LAR	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER PERCENT REACTANTS PER LITER				MILLIGRAMS PER LITER							
				CA	MG	NA	K	CaCO3	SO4	CL	NO3	TOTAL	SiO2	Fe	PHOS	TH	CO2	REM	
R-01 SAN JOAQUIN DELTA MU																			
04H/05F-08G02 M																			
02/21/85	5050			714	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
0050	0000																		
05/01/85	5050			784	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1300	0000																		
06/06/85	5050			876	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1030	0000																		
07/01/85	5050			975	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1430	0000																		
07/31/85	5050			1122	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1500	0000																		
04H/05F-08H03 M																			
02/21/85	5050			2122	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1040	0000																		
05/01/85	5050			2448	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1345	0000																		
06/06/85	5050			2478	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	0000																		
07/01/85	5050			2592	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1400	0000																		
07/31/85	5050			2652	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1415	0000																		
01S/03E-15A01 M																			
08/01/85	5050	72 F	7.9	2015	30	12	370	--	258	--	305	--	--	--	--	125	14.4		
1430	5050	22 C	8.6	1970	1.50	.09	16.10	5.15	11.14	--	--	--	--	--	--	0	27.0		
02S/04E-16A01 M																			
07/09/85	5050	66 F	7.7	1944	53	52	296	--	219	--	274	--	--	--	--	346	7.0		
1200	5050	19 C	8.3	1960	2.64	4.28	12.96	4.38	7.73	--	--	--	--	--	--	127	14.6		
02S/05E-25B02 M																			
07/09/85	5050	68 F	7.9	1898	195	72	164	--	174	--	310	--	--	--	--	758	2.6		
1115	5050	20 C	8.2	1900	0.23	5.92	7.13	3.48	8.74	--	--	--	--	--	--	584	4.4		
R-02 NORTH OJAILO RANGE MU																			
02H/02E-20A01 M																			
07/25/85	5050	67 F	7.5	1710	87	64	196	5.2	274	218	208	40.0	.7	--	1070	461	3.9		
1400	5050	19 C	8.4	1650	4.34	5.26	8.61	.13	5.47	4.54	5.67	.97	--	--	1004	207	9.8		
R-03 NORTH VALLEY FLOOR MU																			
R-03.4 LOWER COSUMNES-DRY MA																			
R-03.42 HEPALEO MSA																			
07/16/85	5050	69 F	7.3	147	6.0	3.0	21	--	53	--	4.0	--	--	--	--	28	1.7		
1700	5050	21 C	7.0	155	.30	.25	.91	1.06	.17	--	--	--	--	--	--	0	1.1		
05H/08E-26P01 M																			
07/12/85	5050	73 F	7.3	130	11	6.0	16	--	52	--	5.0	--	--	--	--	42	1.0		
1015	5050	8.3	143	.55	.49	.70	.46	1.04	.14	--	--	--	--	--	--	0	1.0		
06H/06E-33J02 M																			
07/17/85	5050	68 F	7.3	196	13	8.0	14	--	68	--	9.0	--	--	--	--	56	0.0		
1015	5050	20 C	8.1	198	.65	.66	.70	1.36	.25	--	--	--	--	--	--	0	1.0		
06H/08E-21P03 M																			
07/18/85	5050	73 F	7.3	202	3.0	1.0	46	--	67	--	4.0	--	--	--	--	12	5.0		
1330	5050	23 C	7.4	212	.15	.08	1.74	1.34	.17	--	--	--	--	--	--	0	2.3		
07H/07E-08H02 M																			
07/17/85	5050	67 F	7.3	245	22	13	12	--	109	--	4.0	--	--	--	--	109	0.4		
1300	5050	19 C	8.0	259	1.10	1.07	.52	2.18	.14	--	--	--	--	--	--	0	0.4		
07H/07E-14P01 M																			
07/16/85	5050	7.3	230	19	11	12	--	96	--	5.0	--	--	--	--	--	92	0.5		
1430	5050	7.7	237	.95	.90	.52	38	1.92	.14	--	--	--	--	--	--	0	0.4		
07H/07F-33G01 M																			
07/16/85	5050	68 F	7.3	249	14	12	17	--	103	--	12	--	--	--	--	94	0.8		
1400	5050	20 C	7.3	255	.90	.99	.74	2.04	.34	--	--	--	--	--	--	0	1.2		

TABLE E-1 (CONTINUED)
MINERAL ANALYSES OF GROUNDWATER

DATE TIME	SAMPLER L&A	TEMP	FIELD		MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER PERCENT REACTANCE VALUE				SAR	RFA
			LABORATORY PH	EC	CA	MG	NA	K	CaCO3	SO4	Cl	NO3	SiO2	Fe	TDS SUM	TH MCM		
A R-03 R-03.R SAN JUAN VALLEY FLOOR HI LOWER MOUNTAIN WA																		
07/11/85 1015	5050 5050	7.5 8.4	538 571	68 31.9 54	24 1.07 32	26 .97 14	--	109 3.90	--	40 1.19	--	--	--	--	268 73	0.5 1.2		
07/24/85 1400	5701 5701	7.7 7.7	425 425	70 3.49 49	28 2.30 32	26 1.22 17	3.0 4.06 1	233 1.31 1.07	83 1.31 1.0	33 .03 13	2.0 1.03 0	--	.1 45.0	412	290 57	0.7 1.6		
07/31/85 1040	5701 5701	7.4 7.4	340 340	28 1.40 38	13 1.07 30	26 1.13 31	4.0 1.16 3	148 2.96 1.07	18 .37 1.0	11 .31 8	1.0 1.02 1	--	.1 54.0	244	122 0	1.0 1.6		
07/15/85 1125	5701 5701	7.7 7.7	440 440	40 2.00 42	20 1.64 24	23 1.06 21	5.1 1.13 3	184 3.68 78	32 .67 14	10 .28 6	4.0 1.66 1	--	.1 51.0	205	182 0	0.7 1.5		
07/11/84 0945	5050 5050	7.5 8.4	861 865	43 2.15 33	30 2.47 38	43 1.87 20	--	202 4.04	--	33 .03	--	--	--	--	231 29	1.2 2.6		
07/11/85 1245	5050 5050	7.1 8.4	585 611	66 3.29 42	29 2.38 31	46 2.13 27	--	204 4.08	--	26 .73	--	--	--	--	284 80	1.3 2.8		
07/11/85 0800	5050 5050	7.7 8.5	501 531	57 2.84 39	24 1.97 27	57 2.46 34	--	226 4.52	--	9.0 .25	--	--	--	--	241 15	1.6 3.5		
07/11/85 0900	5050 5050	7.5 8.4	241 261	22 1.10 39	12 .99 35	16 .76 25	--	118 2.36	--	4.0 .11	--	--	--	--	105 0	0.7 1.1		
07/12/85 1530	5046 5050	7.1 8.2	266 272	26 1.30 39	13 1.07 32	22 .96 26	--	92 1.64	--	21 .59	--	--	--	--	119 27	0.9 1.4		
07/12/85 1600	5050 5050	7.1 8.3	455 475	49 2.45 42	26 2.14 36	30 1.31 22	--	156 3.12	--	21 .59	--	--	--	--	229 74	0.9 1.6		
07/12/85 1130	5050 5050	7.3 8.2	281 292	28 1.40 38	14 1.44 40	18 .78 21	--	108 2.16	--	21 .59	--	--	--	--	144 36	0.7 1.1		
07/12/85 1015	5050 5050	7.3 8.4	339 365	43 2.15 45	22 1.81 37	26 .87 16	--	146 2.92	--	12 .34	--	--	--	--	198 92	0.8 1.2		
A-03.C LOWER CALAVERAS WA																		
08/14/85 1330	5701 5701	7.6 7.6	630 630	60 2.99 48	24 1.97 32	25 1.06 18	6.3 .16 3	212 4.24 65	17 .35 1	32 1.47 23	26.0 .42	--	.1 80.0	397	250 36	0.7 1.9		
09/04/85 1530	5701 5701	6.25 6.25	12 11	6.0 9	102 1	1.1 1	101 35	2.0 1.01 1	129 2.64 1	1.0 3.64 1	1.0 .02	--	.1 51.0	365	55 0	4.0 7.3		
09/21/85 1600	5701 5701	7.5 7.5	715 715	29 1.44 21	12 .99 14	101 4.39 63	1.5 .04 1	103 2.06 31	2.0 .04 1	160 4.51 18	1.0 1.02	--	.1 54.0	424	120 19	4.0 6.3		
09/03/85 1530	5701 5701	7.5 8.1	595 595	18 1.6	4.0 12	96 71	1.0 1	121 2.42 44	2.0 .04 1	166 2.99 54	3.0 .05	--	.1 51.9	352	76 0	4.5 8.5		
07/15/84 0728	5701 5701	7.7 7.7	1240 1240	78 2.49 27	31 2.55 23	123 5.35 46	4.1 1.10 1	116 2.32 22	1.0 .62 0	208 8.40 78	1.0 1.02	--	.1 56.0	642	270 156	3.3 6.3		
08/14/85 1155	5701 5701	7.4 7.4	600 600	10 .40 0	8.0 .66 12	102 4.44 76	1.7 .04 1	151 3.02 53	1.0 .02 1	92 2.50 46	1.0 1.02	--	.1 84.0	370	58 0	5.8 8.3		
07/24/85 0820	5701 5701	7.7 7.7	530 530	36 1.40 36	17 1.47 27	43 1.87 36	2.6 1.07 1	138 2.76 12	7.0 .15 3	84 2.37 45	2.0 .03	--	.1 47.0	323	164 27	1.5 2.7		
08/14/85 1120	5701 5701	7.4 7.4	300 300	15 22 10	8.0 1.9 8	46 56 1	2.0 1 1	141 1.82 1	5.0 1.10 3	18 .51 15	1.0 1.02	--	.1 54.0	238	72 0	2.4 3.6		

TABLE E-1 (CONTINUED)

MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER IAP	TEMP	FIELD		MINERAL CONSTITUENTS IN					MILLIGRAMS PER LITER				MILLIGRAMS PER LITER				SAR	REM
			LABORATORY PH	EC	CA	MG	NA	F	MILLIEQUIVALENTS PER LITER				MILLIEQUIVALENTS PER LITER						
									PERCENT REACTANCE VALUE				PERCENT REACTANCE VALUE						
									CA(03)	SO4	CL	NO3	TORR	SiO2	R	F	TDS SUM		
.....																			
	R		SAN JOAQUIN RA																
	R-03		NORTH VALLEY FLOOR HU																
	R-03.0		DECK-LITTLE JOHNS HA																
			015/085-14001 M																
07/10/85	505C	17	F	7.4	510	50	24	27	--	130	--	13	--	--	--	224	0.4		
1330	505D	19	C	4.3	530	2.50	1.97	1.17		4.60		.37		--	--	0	1.7		S
						44	35	21											
	R-04		MIDDLE SIERRA HUI																
	R-04.4		SHITTE CREEK HA																
			074/125-34001 M																
02/09/85	774R					35	6.2	6.0	--	08	1.5	6.0	--	--	--	132	115	0.2	
	5484				7.2	220	1.75	.51		1.96	.03	.17		--	--	113	15	0.4	
						69	20	16											

TABLE E-1 (CONTINUED)
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER L&N	TEMP	FIELD LABORATORY		MINERAL CONSTITUENTS IN					MILLIGRAMS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER PERCENT REACTANCE VALUE													
			PH	EC	Ca	Mg	Na	K	CaCO3	SO4	CL	NO3	TURB	SIO2	Fe	TOC	TH	540	REM												
G-08 G-09, A																				NORTH LAMONTAN HB SUGANVILLE HILL MERLONE HA											
06/12/85 0850	5050 5050	21N/16E-19J01	67.0F 19.4C	7.4	308 364	26 1.30	15 1.23	--	--	--	--	5.0 .14	--	--	--	--	127														
06/12/85 0930	5050 0000	22N/17E-04X01	60.0F 15.5C	7.3	350	--	--	--	--	--	--	--	--	--	--	--			5												
06/12/85 0930	5050 5050	22N/17E-26J01	57.0F 13.9C	7.5 6.4	520 502	44 2.20	22 1.41	23 1.00	9.1 .23	186 3.76	24 10	25 74	14.0 .23	.0	--	33*	201 13	0.7 1.5													
06/12/85 1010	5050 0000	23N/17E-02H01	68.0F 20.5C	7.1	700	--	--	--	--	--	--	--	--	--	--	--			5												
07/09/85 1020	5050 5050	25N/17E-04H01	66.5F 19.1C	7.3	327 318	30 1.50	9.0 .74	--	--	--	--	10 .28	--	.0	.2	--	112		5												
07/09/85 0950	5050 5050	25N/17E-08H03	57.0F 13.9C	6.8	320 313	32 1.60	9.0 .74	--	--	--	--	4.0 .11	--	.0	.1	--	117		5												
06/13/85 1030	5050 5050	25N/17E-20R01	61.0F 16.1C	7.3 6.6	470 441	42 2.10	14 1.15	32 1.39	1.4 .04	192 3.84	12 .25	6.0 .23	14.0 .23	.0	.2	290 239	163 0	1.1 2.2													
06/13/85 1100	5050 5050	25N/17E-21H01	61.0F 16.1C	7.0 7.1	398 192	18 .90	5.0 .45	11 21	1.1 .33	79 1.58	6.0 .17	4.0 .11	6.4 .11	.0	.2	136 105	66 0	0.8 1.0	5												
06/12/85 1050	5050 5050	25N/17E-29H01	58.0F 14.4C	7.0 7.3	215 210	24 1.20	4.0 .33	12 .52	1.4 .04	64 1.68	--	4.0 .11	--	.0	.1	--	76 0	0.6 0.4	5												
07/08/85 1600	5050 5050	26N/15E-02X01	65.0F 18.3C	7.6	234 224	22 1.10	6.0 .49	--	--	--	--	3.0 .08	--	.0	.1	--	80		5												
06/12/85 1230	5050 5050	26N/16E-02X01	66.0F 16.9C	7.6 7.7	456 445	29 1.45	9.0 .74	33 2.33	5.0 .13	160 3.60	--	14 .39	--	.2	.3	--	110 0	2.2 3.9	5												
06/12/85 1300	5050 5050	26N/16E-03D02	71.0F 21.6C	6.2 6.1	515 516	10 .50	2.0 .16	93 4.13	16 .41	144 2.68	--	19 .24	--	.2	.4	--	33 0	7.2 4.4													
06/12/85 1310	5050 5050	26N/16E-06H01	60.0F 15.5C	7.1 6.0	450 442	29 1.45	12 .99	47 2.04	4.2 .11	124 2.48	--	14 .39	--	.2	.3	--	122 0	1.9 3.1	5												
06/12/85 1435	5050 5050	26N/16E-15E03	60.0F 15.5C	7.0 6.0	700 668	54 2.69	13 1.07	62 3.37	4.3 .11	193 3.96	122 2.54	20 .56	8.8 .14	.4	1.0	444 420	188 0	2.8 5.3	5												
06/12/85 1600	5050 5050	26N/16E-16J01	60.0F 15.5C	7.0 7.9	410 400	41 2.05	12 .99	33 1.44	3.0 .08	147 2.94	36 16	11 7	14.0 .23	.1	.1	267 23*	152 5	1.2 2.2	5												
06/12/85 1400	5050 5050	26N/17E-18H01	64.0F 17.8C	7.3 6.2	743 724	32 1.60	4.0 .33	129 5.61	2.5 .06	192 3.84	45 .94	29 .72	96.0 1.55	.4	1.2	498 453	96 0	4.7 9.9	5												
06/12/85 1410	5050 5050	26N/17E-19E01	67.0F 19.4C	7.4 6.1	550 912	50 2.50	38 3.13	76 3.31	6.1 .16	153 3.08	250 5.39	10 .26	1.6 .23	.2	1.0	890 593	282 120	2.0 4.1	5												
07/09/85 1115	5050 5050	27N/14E-22H01	65.0F 18.3C	7.3	325 326	30 1.40	9.0 .76	--	--	--	--	4.0 .11	--	.1	.4	--	28		5												
07/10/85 1345	5050 5050	27N/14E-24E01	60.0F 15.5C	7.0 7.8	310 303	25 1.30	6.0 .49	34 1.46	2.0 .05	140 2.80	14 .29	4.0 .11	1.2 .02	.0	--	202 171	90 0	1.6 2.5													
06/11/85 1450	5050 0000	27N/14E-26E01	64.0F 17.8C	6.8	175	--	--	--	--	--	--	--	--	--	--	--															

TABLE E-1 (CONTINUED)

MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH	TEMP	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER TDS				REMARKS
					CA	MG	NA	K	CACO3	SO4	CL	NO3	TDS SIL	TH NCH	SAR ASAR		
NORTH LAMONTAN HB SUSANVILLE HB HERIOTING NA																	
07/09/85 1054	505C 0000	27N/14E-2AE02	M	7.0	90	--	--	--	--	--	--	--	--	--	--		S
08/11/85 1500	5050 0000	27N/14E-2AF05	M	17.4C	115	--	--	--	--	--	--	--	--	--	--		S
07/10/85 1320	5050 0000	27N/15E-29P01	M	69.0F 20.4C	7.9 7.5	230 224	20 1.00	4.0 1.33	2.4 1.04	1.4 0.04	93 1.86	18 3.37	2.0 0.06	2 0.00	149 124	66 0	1.3 1.7
08/12/85 1240	5050 0050	27N/16E-35P01	M	63.0F 17.2C	7.3 7.1	675 662	45 2.25	15 1.44	88 2.90	9.9 2.25	140 3.20	134 2.79	27 0.76	4.9 0.08	403 403	154 27	2.2 4.2
08/12/85 1220	5050 0040	27N/16E-36Q04	M	63.0F 17.2C	7.1 7.1	1140 1130	120 5.99	37 3.04	95 4.13	3.5 0.09	168 3.36	356 7.41	40 1.38	25.0 0.40	844 787	452 284	1.9 4.4
08/11/85 0940	5050 0050	28N/17E-18K01	M	60.0F 15.5C	8.7 8.1	330 318	6.0 0.30	1.0 0.08	6.4 2.70	2.9 0.07	106 2.12	74 0.54	14 0.39	2.2 0.04	209 180	19 0	6.4 5.3
07/10/85 1100	5050 0050	28N/17E-25P01	M	62.0F 27.0C	8.4 7.6	275 262	5.0 2.25	1.0 0.08	5.1 2.22	-- 0.87	94 2.12	-- 1.92	10 0.28	-- 0.00	-- 0.00	16 0	5.5 4.0
G-GR-R SUSAN RIVER NA																	
07/09/85 1135	5050 0050	27N/14E-06R01	M	54.5F 12.5C	7.0	210 217	21 1.05	8.0 0.68	--	--	--	--	1.0 0.03	--	86	--	S
07/09/85 1235	5050 0050	28N/13E-02M01	M	64.0F 17.8C	7.3	595 571	40 2.00	22 1.81	--	--	--	--	33 0.03	--	191	--	S
07/11/85 0910	5050 0000	28N/13E-05401	M		205	--	--	--	--	--	--	--	--	--	--	--	S
08/11/85 1420	5050 0050	28N/13E-09E01	M	69.0F 20.5C	6.8	205 203	21 1.05	7.0 0.58	9.6 0.35	1.5 0.04	--	--	3.0 0.08	--	82	0.0	S
07/09/85 1215	5050 0050	28N/13E-10N01	M	65.0F 18.3C	6.9	257 258	24 1.20	12 0.99	--	--	--	--	6.0 0.17	--	110	--	S
07/09/85 1305	5050 0050	28N/13E-14A03	M	61.0F 16.1C	7.4	220 213	19 0.95	8.0 0.49	--	--	--	--	2.0 0.06	--	72	--	S
08/11/85 1405	5050 0050	28N/13E-25L01	M	64.0F 17.8C	7.1	160 159	16 0.80	3.0 0.25	1.0 0.44	1.8 0.05	--	--	3.0 0.08	--	52	0.0	S
07/09/85 1530	5050 0050	28N/14E-02Q02	M	61.0F 16.1C	7.5 8.0	1900 1790	50 2.50	36 2.96	217 9.44	-- 0.63	240 4.80	--	389 11.25	0 0.00	273 33	9.7 12.6	S
09/25/85 0920	5050 0050	28N/14E-03C02	M	62.5F 18.9C	7.8 8.6	790 775	19 0.95	12 0.99	136 5.92	4.9 0.13	223 4.46	84 1.33	73 2.06	1.2 0.02	470 444	97 0	6.0 10.8
08/11/85 1350	5050 0050	28N/14E-06M01	M	73.0F 22.2C	7.8 8.6	430 425	4.0 0.20	3.0 0.25	8.8 3.83	6.3 1.16	--	--	10 0.28	--	22	0.0	S
07/10/85 1215	5050 0050	28N/14E-07A01	M	61.0F 16.1C	7.3	280 262	8.0 0.40	3.0 0.25	--	--	--	--	6.0 0.17	4.4 0.07	32	--	S
07/10/85 1230	5050 0050	28N/14E-07J01	M	60.0F 15.5C	7.3	340 334	38 1.90	9.0 0.74	--	--	--	--	3.0 0.08	--	132	--	S
09/25/85 0900	5050 0000	28N/14E-08A01	M	60.0F 15.5C	8.0	420	--	--	--	--	--	--	--	--	--	--	S

TABLE E-1 (CONTINUED)
MINERAL ANALYSIS OF GROUNDWATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER				TH	TM	TCN	TCN	TCN	TCN
					CA	MG	NA	K	PERCENT CAPS	SO4	CL	NO3	TH	TM	TCN	TCN						
NORTH LAMONTAIN NA SUSANVILLE NA SUSAN RIVER NA																						
07/09/85 1330	5050 5050	28N/14E-08J01	71.0F 21.0C	7.9 36.4	375 1.35	7.0 .16	--	--	--	--	18 *1	--	.3 --	.2 --			26					
06/11/85 1305	5050 5050	28N/14E-17R02	60.0F 15.5C	7.8 8.0	318 308	28 1.40	5.0 41	36 12	.3 46	126 0	21 14	7.0 2.3 6	.0 --	.1 --	201 175	90 0	1.7 2.6					
06/11/85 1430	5050 0000	28N/14E-31M04	60.0F 20.5C	6.8	185	--	--	--	--	--	--	--	--	--								
06/11/85 0915	5050 5050	28N/16E-08R01	183.2F 84.0C	8.9 8.0	1250 1260	18 .90	.0 11.22	25E 1.1	6.2 1.6	39 .78	251 1.06	1.4 4.34	.0 .00	4.0 --	7.4 755	854 6	45 11.0	15.7 11.0				
06/10/85 1435	5050 5050	29N/12E-02P06	58.0F 14.4C	7.6 44.6	450 1.00	20 23	9.0 .74	5.0 2.57	4.9 .13	--	--	27 .76	--	.6 --	.3 --			8.7	0.0			
06/10/85 1350	5050 5050	29N/12E-05E02	74.0F 23.3C	7.6 8.0	295 280	29 49	10 14.45	13 .82	4.3 .97	107 2.14	10 15	4.0 .11	1.0 .02	.0 --	.2 --	196 144	114 7	0.9 0.9				
07/08/85 1345	5050 5050	29N/12E-12C03			900 907	63 3.14	33 2.71	81 3.52	9.2 .24	183 1.66	242 5.04	17 4.8	22.0 .35	.4 --	--	639 577	293 110	2.1 4.5				
07/08/85 1435	5050 5050	29N/12E-13K06	64.0F 17.8C	7.1	210 295	11 .55	5.0 .41	--	--	--	--	3.0 .08	--	.1 --	.2 --			4.8				
07/08/85 1355	5050 5050	29N/12E-14A01	59.0F 15.0C	6.7	200 195	16 .80	6.0 .49	--	--	--	--	2.0 .06	--	.0 --	.1 --			6.4				
06/10/85 1425	5050 5050	29N/12E-15A04	56.0F 13.3C	7.0 8.0	230 217	20 1.00	7.0 .58	13 .57	1.1 .03	83 1.66	6.0 1.12	3.0 .08	19.0 .31	.0 --	.2 --	154 119	79 0	0.6 0.9				
06/10/85 1405	5050 5050	29N/12E-16M02	66.0F 18.9C	8.2 8.0	192 188	10 .50	1.0 .08	3.0 1.31	1.0 .03	83 1.66	14 .29	1.0 .03	.0 .02	.0 --	.3 --	116 107	29 0	2.4 2.3				
07/08/85 1415	5050 5050	29N/12E-21E02		7.3	292 285	26 1.30	8.0 .66	1.0 .93	--	84 1.66	--	1.0 .03	--	.0 --	--			98 14	0.9 1.2			
06/10/85 1530	5050 5050	29N/13E-01N01	60.0F 15.9C	7.7 8.2	840 815	8.0 .40	2.0 .16	17.6 7.74	6.2 .16	177 3.54	120 2.50	34 .96	64.0 1.03	.0 --	.6 --	572 510	28 0	14.6 14.8				
06/10/85 1500	5050 5050	29N/13E-04N01		7.8	230	--	--	--	--	--	--	--	--	--	.4 --							
07/11/85 0945	5050 5050	29N/13E-05M01	64.0F 17.8C	7.6	243 246	14 .70	5.0 .66	--	--	--	--	3.0 .08	--	.1 --	.2 --			6.8				
07/11/85 1050	5050 5050	29N/13E-12P01	62.0F 16.7C	7.8	425 421	21 1.05	8.0 .68	--	--	--	--	14 .39	--	.1 --	.2 --			8.6				
06/11/85 1130	5050 5050	29N/13E-17C05	58.0F 14.4C	7.1	400	--	--	--	--	--	--	--	--	.1 --	.4 --							
07/10/85 0925	5050 5050	29N/13E-21M02	62.0F 16.7C	7.6 6.5	240 224	14 .70	8.0 .49	2.1 1.04	3.5 .09	107 2.14	4.0 .08	3.0 .08	4.4 .07	.0 --	--	182 124	80 0	1.4 1.9				
06/11/85 1110	5050 5050	29N/13E-24P02	60.0F 15.5C	7.3	500	--	--	--	--	--	--	--	--	.0 --	.2 --							
06/10/85 1600	5050 5050	29N/14E-04N01	61.0F 16.1C	7.7	1060	--	--	--	--	--	1.4 3.43	--	--	.6 --	.1 --							

TABLE E-1 (CONTINUED)

MINERAL ANALYSES OF GROUND WATER

TIME	SAMPLER LAB	TEMP	FIELD LABORATORY	FIELD EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER				MILLIGRAMS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER TDS SUM				REMARKS
					CA	MG	NA	P	PERCENT CACO3	SFA	CL	VALUE	R	F	TDS	TM	KAR				
MORIN LA MONTANA																					
SUGANVILLE HW																					
SUGAN RIVER MA																					
07/10/85 0933	5050 5050	20N/14E-06L03	57.0F 13.9C	7.9 916	520 16	7.0 140	-- 154	-- --	-- --	-- 10	-- 28	-- --	.5 --	.4 --	-- --	69					
07/11/85 1010	5050 5050	20N/14E-10F01	72.0F 22.2C	7.3 449	440 1.20	13 1.07	-- --	-- --	-- --	-- 7.0	-- 20	-- --	.1 --	.7 --	-- --	114					
06/10/85 1525	5050 5050	20N/14E-17001	66.0F 19.9C	7.4 84	775 1070	12 60	16.0 149	234 16.18	5.9 115	300 9.94	144 3.00	69 1.95	5.3 1.09	1.4 1	1.4 --	704 657	54 0	13.9 22.6			
06/11/85 1100	5050 5050	20N/14E-18P01	74.0F 23.3C	8.0 8.6	1020 1030	4.0 20	1.6 1.08	235 11.04	8.0 20	414 827	86 1.79	12 16	30.0 3.4	.9 3	9.2 4	685 645	14 0	29.7 35.1			
06/11/85 1050	5050 5050	20N/14E-19A02	57.0F 13.9C	7.6 1100	-- --	-- --	-- --	-- --	-- --	169 3.52	-- --	64.0 1.03	-- --	2.9 --	-- --	-- --					
06/11/85 1645	5050 5050	20N/14E-20A03	61.0F 16.1C	7.7 8.6	1260 1200	37 1.85	19 1.56	234 16.18	17 43	470 9.34	126 2.62	66 1.86	23.0 3.37	1.6 --	1.4 --	791 805	171 0	7.8 18.0			
07/09/85 1500	5050 5050	20N/14E-20A04	59.0F 15.0C	7.3 2150	78 3.89	41 3.37	-- --	-- --	-- --	-- --	144 4.62	-- --	-- --	1.7 --	.5 --	-- --	363				
06/10/85 1615	5050 5050	20N/14E-20R04	60.0F 15.5C	7.8 8.1	1450 1400	14 1.80	7.0 5.8	314 13.66	6.5 17	475 9.58	227 4.73	33 9.3	12.0 1.9	2.0 --	1.7 --	915 904	69 0	16.5 31.4			
07/10/85 1140	5050 5050	20N/15E-08P02	75.0F 23.9C	7.8 609	630 1.50	30 1.15	14 --	-- --	-- --	-- --	25 1.71	-- --	-- --	.2 --	.7 --	-- --	133				
07/10/85 1013	5050 5050	20N/15E-23K01	67.0F 17.0C	8.5 1450	20 1.00	.0 1.00	-- --	-- --	-- --	-- --	185 5.22	-- --	-- --	5.4 --	4.1 --	-- --	50				
08/11/85 1020	5050 5050	20N/15E-30A03	56.0F 13.3C	8.0 8.5	600 587	10 1.50	4.0 3.33	133 5.79	4.2 11	276 5.91	26 1.54	7.0 2.70	1.1 0.02	.4 --	.4 --	382 391	42 0	8.9 13.7			
09/29/85 0945	5050 5050	20N/15E-30001	56.0F 13.3C	8.0 8.7	550 553	11 1.55	5.0 4.1	116 5.05	4.2 11	258 5.15	28 1.98	8.0 2.23	1.5 1.03	.4 --	-- --	363 329	48 0	7.3 11.4			
09/28/85 1015	5050 5050	20N/15E-32C01	53.0F 11.7C	8.1 8.6	750 728	11 1.55	7.0 5.8	158 6.87	4.2 11	336 6.71	18 1.40	25 1.71	5.8 1.09	.4 --	-- --	452 432	56 0	9.2 15.9			
06/11/85 0850	5050 5050	20N/16E-30L01	72.0F 22.2C	8.2 8.2	310 307	7.0 1.35	2.0 1.16	5.8 2.31	8.3 21	91 1.82	28 1.58	17 1.48	4.0 1.06	.7 --	1.1 --	213 174	26 0	4.5 4.1			
07/08/85 1234	5050 5050	30N/12E-30A01	66.0F 20.0C	7.3 8.0	185 179	16 1.80	1.0 1.66	16 4.4	-- 23	89 1.78	-- --	1.0 1.03	-- --	-- --	-- --	73 0	0.5 0.7				
07/08/85 1240	5050 5050	30N/12E-30A02	66.0F 16.9C	6.8 238	245 1.25	25 10	-- 1.82	-- --	-- --	-- --	4.0 1.11	-- --	-- --	.0 --	.0 --	-- --	104				
06/10/85 1545	5050 5050	30N/14E-19L01	60 F 16 C	7.1 1000	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --					
07/10/85 0905	5050 5050	30N/14E-19P01	61.0F 16.1C	7.5 583	600 1.60	32 1.89	23 --	-- --	-- --	-- --	21 1.59	8.0 1.13	.6 --	-- --	-- --	175					
07/10/85 0900	5050 5050	30N/14E-19F01	62.0F 16.7C	7.9 7.2	945 524	24 22	16.0 12	7.7 6.1	9.7 4	163 1.40	75 1.86	12 3.34	4.0 1.06	.4 --	-- --	372 307	93 0	3.4 5.7			
EAGLE BRAINANCE MA																					
ANTELOPE MOUNTAIN WSA																					
07/31/85 1340	5050 5050	31N/16E-03M01	50.0F 10.0C	7.0 8.3	142 138	12 160	6.0 4.6	-- 2.2	-- 17	70 1.40	-- --	2.0 1.6	1.1 1.02	-- --	-- --	-- --	63 0	0.3 0.4			

TABLE E-1 (CONTINUED)

MINERAL ANALYSES OF GROUND WATER																	
DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE				REMARKS	
				CA	MG	NA	K	CaCO3	SDA	CL	NO3	TURB	SI02	TH	NCM		SAR
NORTH LAMONTAIN H8 SUSANVILLE HU EAGLE DRAINAGE HA ANTELOPE MOUNTAIN H8A																	
07/31/85 1410	5050	57.0F 13.9C	7.9 8.5	182 182	22 1.10	7.0 .58	5.6 .22	-- 1.88	94	--	1.0 .03	.4 .01	-- --	-- --	84 0	0.2 0.3	
07/31/85 1400	5050	49.5F 9.7C	7.3 8.4	164 163	12 1.10	10 .58	5.6 .22	1.4 1.88	84	--	1.0 .03	.3 .00	-- --	-- --	71 0	0.3 0.3	
07/31/85 1445	5050	57.5F 14.2C	8.1 8.6	266 265	29 1.45	12 .99	11 .46	-- 1.6	140	--	1.0 .03	.8 .01	-- --	-- --	122 0	0.4 0.4	
07/31/85 1305	5050	53.5F 11.9C	8.0 8.4	191 189	14 .70	10 .82	10 .44	2.6 .07	100	3.0	1.0 .03	.8 .01	.0 0	-- --	133 101	0.5 0.7	
07/31/85 1140	5050	64.0F 17.8C	7.5 8.3	171 167	11 .55	4.0 .33	18 .78	3.7 .09	81	--	1.0 .03	1.6 .03	-- --	-- --	44 0	1.2 1.3	
6-08.0 SNOW STORM MOUNTAIN HA																	
06/11/85 1630	5050 0000	56.0F 13.3C	7.6	380	--	--	--	--	--	--	--	--	--	--	--	--	
6-10 MADELINE PLAINS HU																	
08/08/85 1445	5050 0000	58.0F 14.4C	7.8	160	--	--	--	--	--	--	--	--	--	--	--	--	
08/08/85 1505	5050 0000	63.0F 18.3C	7.7	250	--	--	--	--	--	--	--	--	--	--	--	--	
08/08/85 1515	5050 0000	58.0F 14.4C	7.2	150	--	--	--	--	--	--	--	--	--	--	--	--	
08/08/85 1430	5050 0000	56.0F 13.3C	7.2	980	--	--	--	--	--	--	--	--	--	--	--	--	
08/08/85 1350	5050 0000	58.0F 14.4C	7.6	420	--	--	--	--	--	--	--	--	--	--	--	--	
08/08/85 1405	5050 0000	55.0F 12.8C	7.4	2800	--	--	--	--	--	--	--	--	--	--	--	--	
6-12 SURPRISE VALLEY HU RARE CREEK HA																	
08/07/85 1125	5050 0000	54.0F 12.2C	7.3	330	--	--	--	--	--	--	--	--	--	--	--	--	
6-12.8 CEDARVILLE HA																	
08/07/85 1045	5050 0000	54.0F 12.2C	7.9	210	--	--	--	--	--	--	--	--	--	--	--	--	
08/07/85 1100	5050 0000	56.0F 13.3C	7.9	250	--	--	--	--	--	--	--	--	--	--	--	--	
08/07/85 1110	5050 0000	55.0F 12.8C	7.3	240	--	--	--	--	--	--	--	--	--	--	--	--	
08/07/85 0945	5050 0000	59.0F 15.0C	7.8	235	--	--	--	--	--	--	--	--	--	--	--	--	
08/07/85 1000	5050 0000	58.0F 14.4C	7.8	270	--	--	--	--	--	--	--	--	--	--	--	--	

TABLE E-2
MINOR ELEMENT ANALYSES OF GROUND WATER

Lab and Sampler Agency Code

5050 - California Department of Water Resources, Bryte Laboratory
 5060 - California Department of Health, Berkeley Laboratory
 5684 - Sierra Environmental Monitoring Laboratory
 5701 - California Water Service Company Laboratory
 5867 - Fruit Growers Laboratory
 7748 - California Department of Forestry
 8200 - Colusa County

Abbreviations

TIME	- Pacific Standard Time on a 24-hour clock
EC	- Electrical conductance in microsiemens at 25° C
TEMP	- Water temperature at time of sampling in degrees Fahrenheit (F) or Celsius (C)
pH	- Measure of acidity or alkalinity of water
CHROM (ALL)	- All chromium
CHROM (HEX)	- Hexavalent chromium
D	- Dissolved
T	- Total
REM	- Remarks; code letter are:
	P - Laboratory pH was substituted for field pH, which was not available.
	E - Total dissolved solids (TDS) value is not within the range of 0.35 to 0.70 of the electrical conductivity.

TABLE E-2
MINOR ELEMENT ANALYSES OF GROUND WATER

DATE TIME	SAMP LAR	DEPTH	DISCH EC	TEMP PH	ARSENIC	CONSTITUENTS BARIUM CALCIUM	IN MILLIGRAMS CHROM (ALL) CHROM (HEX)	PER LITER COPPER IRON	LEAD MANGANESE	MERCURY TELURIUM	SILVER ZINC	RE*
A-02 A-02-A 07N/01E-14J01 M SACRAMENTO HR VALLEY PUTAH-CACHE MI ELMIRA HA												
06/19/85	5701			18 C	--	--	--	0.0	T	--	--	P
1457	5701		945	7.6	--	--	--	0.0	T	--	0.0	E
07N/01E-14N03 M												
06/19/85	5701			18 C	--	--	--	0.0	T	--	--	P
0945	5701		890	7.7	--	--	--	0.0	T	--	0.0	E
07N/01E-23N02 M												
06/19/85	5701			21 C	--	--	--	0.0	T	--	--	P
1405	5701		575	7.8	--	--	--	0.0	T	--	0.0	E
A-04 A-04-D A-04-D4 11N/04W-05B01 M CACHE CREEK MI UPPER CACHE CREEK HA LAKEPORT HSA												
10/03/84	5050			16.0C	--	--	--	0.00	T	0.00	T	--
1800	5050		381	7.3	--	0.00	T	0.20	T	0.15	T	0.00
12/04/84	5050			15.0C	--	--	--	0.06	T	0.00	T	0.00
1230	5050		390	7.2	--	0.00	T	0.18	T	0.10	T	0.01
02/04/85	5050			19.5C	--	--	--	0.00	T	0.00	T	0.00
1430	5050		395	7.3	--	0.00	T	0.08	T	0.10	T	0.01
04/03/85	5050			15.5C	--	--	--	0.00	T	0.00	T	0.00
1040	5050	0	375	7.2	--	0.00	T	0.10	T	0.10	T	0.01
06/04/85	5050			16.0C	--	--	--	0.00	T	0.01	T	0.00
1430	5050	0	395	7.2	--	0.00	T	0.08	T	0.10	T	0.01
08/07/85	5050			16.0C	--	--	--	0.00	T	0.00	T	0.00
1130	5050	0	395	7.1	--	0.00	T	0.28	T	0.13	T	0.01
11N/08W-05C01 M												
10/03/84	5050			19.5C	--	--	--	0.00	T	0.00	T	0.00
1540	5050		341	7.4	--	0.00	T	0.20	T	0.05	T	0.02
12/04/84	5050			17.0C	--	--	--	0.01	T	0.00	T	0.00
1300	5050		340	7.3	--	0.00	T	0.22	T	0.05	T	0.05
02/05/85	5050			6.0C	--	--	--	0.00	T	0.00	T	0.00
1330	5050		357	7.2	--	0.00	T	0.05	T	0.08	T	0.01
04/03/85	5050			18.5C	--	--	--	0.04	0	0.01	T	0.00
0915	5050	0	355	7.4	--	0.00	T	0.18	T	0.05	T	0.02
06/04/85	5050			19.5C	--	--	--	0.00	T	0.00	T	0.00
1345	5050	0	345	7.2	--	0.00	T	0.08	T	0.04	T	0.01
08/07/85	5050			26.0C	--	--	--	0.00	T	0.00	T	0.00
1030	5050	0	340	7.2	--	0.00	T	0.48	T	0.02	T	0.10
11N/08W-05G01 M												
10/03/84	5050			18.0C	--	--	--	0.01	T	0.00	T	0.00
1450	5050		187	8.6	--	0.00	T	0.54	T	0.02	T	0.03
12/04/84	5050			11.0C	--	--	--	0.01	T	0.00	T	0.00
1340	5050		85	6.8	--	0.00	T	1.7	T	0.01	T	0.02
02/05/85	5050			4.0C	--	--	--	0.00	T	0.00	T	0.00
1400	5050		98	6.3	--	0.00	0	1.0	T	0.01	T	0.02
04/03/85	5050			10.5C	--	--	--	0.00	T	0.00	T	0.00
0900	5050	0	104	6.2	--	0.00	T	1.4	T	0.01	T	0.03
06/04/85	5050			15.5C	--	--	--	0.00	T	0.00	T	0.00
1400	5050	0	137	6.3	--	0.00	T	0.43	T	0.01	T	0.04
08/07/85	5050			20.5C	--	--	--	0.00	T	0.00	T	0.00
1110	5050	0	165	6.6	--	0.00	T	0.59	T	0.01	T	0.09
11N/08W-05H01 M												
10/03/84	5050			14.0C	--	--	--	0.00	T	0.00	T	0.00
1430	5050		232	8.8	--	0.00	T	0.54	T	0.02	T	0.25
12/04/84	5050			5.5C	--	--	--	0.03	T	0.00	T	0.00
1355	5050		70	6.0	--	0.00	T	13.	T	0.47	T	0.33
02/05/85	5050			4.0C	--	--	--	0.02	T	0.01	T	0.00
1415	5050		185	6.4	--	0.00	T	7.8	T	0.05	T	1.4
04/03/85	5050			9.5C	--	--	--	0.01	T	0.00	T	0.00
0845	5050	0	81	6.0	--	0.00	T	9.0	T	0.09	T	0.06
06/04/85	5050			12.5C	--	--	--	0.00	T	0.01	T	0.00
1415	5050	0	275	6.7	--	0.00	T	0.55	0	0.19	T	0.35
11N/04W-06H01 M												
10/03/84	5050			14.0C	--	--	--	0.00	T	0.00	T	0.00
1515	5050		297	7.2	--	0.00	T	0.30	T	0.00	T	0.00
12/04/84	5050			13.5C	--	--	--	0.00	T	0.00	T	0.00
1315	5050		290	7.3	--	0.00	T	0.30	T	0.00	T	0.00
02/04/85	5050			13.5C	--	--	--	0.00	T	0.00	T	0.00
1315	5050		295	7.2	--	0.00	T	0.04	T	0.00	T	0.00
04/03/85	5050			13.5C	--	--	--	0.00	T	0.00	T	0.00
0945	5050	0	277	7.5	--	0.00	T	0.08	T	0.00	T	0.00

TABLE E-2 (CONTINUED)
MINOR ELEMENT ANALYSES OF GROUND WATER

DATE TIME	SAMP LAB	DEPTH	DISCH EC	TEMP P-4	ARSENIC	CONSTITUENTS BARIUM CAIUM	IN MILLIGRAMS CHROM (ALL) CHROM (HEX)	PER LITER COPPER IRON	LEAD MANGANESE	SELENIUM	SILVER 7INC	REP
A-04 A-04.0 A-04.04 11N/08V-04M01 M SACRAMENTO HR CACHE CREEK MU UPPER CACHE CREEK MA LAKEPORT HSA												
CONTINUED												
06/04/85 1330	5050 5050	0	321	13.5C T.0	---	0.00 D	---	0.00 T	0.00 T	0.050 T	0.00 T	
08/07/85 1100	5050 5050	0	325	14.5C T.0	---	0.00 T	---	0.00 T	0.00 T	0.000 T	0.01 T	
A-07 A-07.8 A-07.81 19N/03V-04J01 M COLUSA BASIN MU GLENN COLUSA MA COLUSA TROUGH HSA												
07/01/85 1935	5701 5701			20.0C	---	---	---	0. T	0. T	---	0. T	
19N/03V-09F01 M												
07/01/85 1045	5701 5701			20.0C	---	---	---	0. T	0. T	---	0. T	
19N/03V-09K01 M												
07/01/85 1320	5701 5701			19.0C	---	---	---	0. T	0. T	---	0. T	
A-07.0 22N/01E-35E01 M BUTTE BASIN MA												
08/12/85 1345	5701 5701			18.0C	---	---	---	0. T	0. T	---	0. T	
22N/01E-36C01 M												
08/12/85 1315	5701 5701			20.0C	---	---	---	0. T	0. T	---	0. T	
A-08 A-08.C 15N/03E-12R02 M MARYSVILLE MU LOWER TUNA RIVER MA												
06/26/85 1115	5701 5701		475	19 C 7.4	---	---	---	0.0 T	0.0 T	---	0.0 T	P E
15N/03E-13M01 M												
08/14/85 1430	5701 5701		655	18 C 7.8	---	---	---	0.0 T	0.06 T	---	0.0 T	P E
15N/04E-07J02 M												
08/14/85 1450	5701 5701		380	18 C 7.7	---	---	---	0.0 T	0.0 T	---	0.0 T	P E
15N/04E-07M02 M												
08/26/85 1130	5701 5701		395	19 C 7.4	---	---	---	0.0 T	0.0 T	---	0.0 T	P E
15N/04E-18C01 M												
08/14/85 1445	5701 5701		325	20 C 7.8	---	---	---	0.0 T	0.09 T	---	0.0 T	P E
A-08.0 17N/04E-20P01 M LOWER FEATHER RIVER MA												
06/24/85 1530	5050 5050		600	59 F 7.5	---	---	---	---	---	---	---	
19N/04E-07P01 M												
06/24/85 1125	5701 5701			18.0C	---	---	---	0. T	0. T	---	0.05 T	
19N/04E-20C01 M												
06/24/85 1150	5701 5701			18.0C	---	---	---	0. T	0. T	---	0. T	
A-13 A-13.8 22N/01E-04A03 M TEHAMA MU RED BLUFF MA												
08/12/85 1530	5701 5701			22.0C	---	---	---	0. T	0. T	---	0. T	
22N/01E-10X01 M												
06/17/85 0800	5701 5701			20.0C	---	---	---	0. T	0. T	---	0. T	
22N/01E-15L01 M												
06/17/85 0815	5701 5701			18.0C	---	---	---	0. T	0. T	---	0. T	
22N/01E-16M01 M												
08/12/85 1304	5701 5701			19.0C	---	---	---	0. T	0. T	---	0. T	

TABLE E-2 (CONTINUED)

MINOR ELEMENT ANALYSES OF GROUND WATER

DATE	SAMP	DISCH	TEMP	CONSTITUENTS				IN MILLIGRAMS		PER LITER		LEAD		MERCURY		SILVER		REMARKS
TIME	LAR	DEPTH	PH	ARSENIC	BARIIUM	CHROMIUM	CHROM (ALL)	CHROM (HEX)	COPPER	IRON	MANGANESE	SELENIUM	ZINC					
		A A-13 A-13.R 22N/01E-22N01	M	SACRAMENTO HR TEHAMA HU RED BLUFF HA														
08/12/85	5701		18.0C	--	--	--			0.	T	--	--	0.	T				
1250	5701								0.	T	0.	T	--			0.	T	
		22N/01E-23N03	M															
06/17/85	5701		22.0C	--	--	--			0.	T	--	--				0.	T	
0950	5701								0.	T	0.	T	--			0.	T	
		22N/01E-23L01	M															
06/17/85	5701		19.0C	--	--	--			0.	T	--	--				0.	T	
1015	5701								0.	T	0.	T	--			0.	T	
		22N/01E-23P01	M															
06/17/85	5701		19.0C	--	--	--			0.	T	--	--				0.	T	
0917	5701								0.	T	0.	T	--			0.	T	
		22N/01E-23P01	M															
08/12/85	5701		18.0C	--	--	--			0.	T	--	--				0.	T	
1600	5701								0.	T	0.	T	--			0.	T	
		27N/03W-20C01	M															
08/20/85	5060																	
5060				0.01	0	0.10	0	0.01	0	--	0.01	0	0.001	T	N	0.001	0	
						0.001	0	--	--	--	--	--	0.005			--		
		A-14 A-14.C A-14.C1 18N/06W-20C01	M	STONY CREEK HU FOOTS SPRINGS HA MIDDLE FORK STONY HSA														
07/17/85	8200																	
1867			400	7.1	0.0	0.00	0.0	--	0.0	0.0	0.0	0.0	0.00			0.0		
									0.0	0.0	0.0	--				0.1		

TABLE E-2 (CONTINUED)
MINOR ELEMENT ANALYSES OF GROUND WATER

DATE TIME	SAMP LAR	DEPTH	DISCH EC	TEMP PH	ARSENIC	CONSTITUENTS NARIUM CAIUM	IN MILLIGRAMS CHRON (ALL) CHRON (MEV)	PER LITEP COPPER IRON	LEAD MANGANESE	MERCURY SELENIUM	SILVER ZINC	REN
6-01 01N/06E-03C01 M SAN JOAQUIN HR SAN JOAQUIN DELTA HU												
06/16/85 1540	5701 5701		245 8.0	20 C	--	--	--	0.0 0.15 T	-- 0.23 T	--	-- 0.0 T	P E
01N/06E-04C01 M												
09/05/85 1500	5701 5701		320 8.0	18 C	--	--	--	0.0 0.11 T	-- 0.10 T	--	-- 0.0 T	P E
02N/06E-33A01 M												
07/24/85 1100	5701 5701		325 7.9	20 C	--	--	--	0.0 0.06 T	-- 0.13 T	--	-- 0.0 T	P E
02N/06E-33F01 M												
06/21/85 1330	5701 5701		335 7.9	18 C	--	--	--	0.0 0.0 T	-- 0.09 T	--	-- 0.0 T	P E
02N/06E-33G01 M												
07/24/85 1130	5701 5701		375 8.0	20 C	--	--	--	0.0 0.16 T	-- 0.28 T	--	-- 0.0 T	P E
02N/06E-33K01 M												
09/05/85 1100	5701 5701		270 7.9	18 C	--	--	--	0.0 2.00 T	-- 0.17 T	--	-- 0.06 T	P E
6-03 02N/06E-22E01 M NORTH VALLEY FLOOR HU LOWER MOKELUMNE HA												
07/24/85 1400	5701 5701		625 7.7	18 C	--	--	--	0.0 0.20 T	-- 0.21 T	--	-- 0.0 T	P E
02N/06E-22G01 M												
07/15/85 1040	5701 5701		350 7.6	18 C	--	--	--	0.0 0.0 T	-- 0.0 T	--	-- 0.0 T	P E
02N/06E-22O01 M												
07/15/85 1125	5701 5701		440 7.7	18 C	--	--	--	0.0 0.0 T	-- 0.0 T	--	-- 0.0 T	P E
6-03.C 01N/06E-01J01 M LOWER CALAVERAS HA												
08/14/85 1330	5701 5701		630 7.6	19 C	--	--	--	0.0 0.0 T	-- 0.0 T	--	-- 0.0 T	P E
01N/06E-02M01 M												
09/04/85 1530	5701 5701		625 6.1	--	--	--	--	0.0 0.59 T	-- 0.23 T	--	-- 0.0 T	P E
01N/06E-02O01 M												
08/21/85 1000	5701 5701		715 7.5	17 C	--	--	--	0.0 0.09 T	-- 0.0 T	--	-- 0.0 T	P E
01N/06E-11P03 M												
09/03/85 1530	5701 5701		595 6.1	--	--	--	--	0.0 0.13 T	-- 0.25 T	--	-- 0.0 T	P E
01N/06E-12C09 M												
07/15/85 0725	5701 5701		1240 7.7	21 C	--	--	--	0.0 0.49 T	-- 0.90 T	--	-- 0.0 T	P E
01N/06E-12F01 M												
08/14/85 1155	5701 5701		600 7.6	20 C	--	--	--	0.12 0.58 T	-- 0.16 T	--	-- 0.10 T	P E
01N/06E-12K03 M												
07/24/85 0920	5701 5701		530 7.7	18 C	--	--	--	0.0 0.09 T	-- 0.15 T	--	-- 0.0 T	P E
01N/07E-08F02 M												
08/14/85 1120	5701 5701		300 7.9	20 C	--	--	--	0.0 0.0 T	-- 0.0 T	--	-- 0.0 T	P E
01N/07E-08P01 M												
07/15/85 1040	5701 5701		255 7.6	20 C	--	--	--	0.0 0.0 T	-- 0.0 T	--	-- 0.0 T	P E
02N/06E-26L01 M												
07/15/85 1200	5701 5701		345 7.7	--	--	--	--	0.0 0.0 T	-- 0.0 T	--	-- 0.0 T	P E
02N/06E-27K01 M												
08/14/85 0930	5701 5701		440 7.6	15 C	--	--	--	0.0 0.0 T	-- 0.0 T	--	-- 0.0 T	P E

TABLE E-2 (CONTINUED)
MINOR ELEMENT ANALYSES OF GROUND WATER

DATE TIME	SAMP LAR	DEPTH	DISCN EC	TEMP PH	ARSENIC	CONSTITUENTS RARIUM CAOPIUM	IN MILLIGRAMS (HROM (ALL) (HROM (NET)	PER LITER COPPER IRON	LEAD MANGANESE	MERCURY SELENIUM	SILVER ZINC	REM
R R-03 R-03.C 02N/06E-27P01 M SAN JOAQUIN RR NORTH VALLEY FLOOR HUI LOWER CALAVERAS HA												
08/21/85	5701											
1400	5701		325	7.8	--	--	--	0.0 0.0	T T	-- 0.08	-- T	P E
02N/06E-34R01 M												
06/20/85	5701											
1045	5701		A20	7.7	--	--	--	0.0 0.05	T T	-- 0.0	-- T	P E
08/07/85	5701											
1530	5701		840	19 E 7.8	--	--	--	0.0 0.15	T T	-- 2.36	-- T	P E
02N/06E-34R01 M												
07/24/85	5701											
1500	5701		940	15 C 7.6	--	--	--	0.0 0.35	T T	-- 0.81	-- T	P E
02N/06E-36R01 M												
08/14/85	5701											
1315	5701		340	19 C 7.9	--	--	--	0.0 0.0	T T	-- 0.0	-- T	P E
02N/06E-36R03 M												
08/21/85	5701											
1305	5701		560	18 C 7.4	--	--	--	0.0 0.0	T T	-- 0.0	-- T	P E
R-03.D 01N/06E-13J01 M DUCK-LITTLE JOHNS HA												
07/24/85	5701											
0945	5701		290	18 C 7.7	--	--	--	0.0 0.0	T T	-- 0.16	-- T	P E
01N/07E-17R01 M												
07/15/85	5701											
1630	5701		295	19 C 7.8	--	--	--	0.0 0.0	T T	-- 0.06	-- T	P E
01N/07E-18R01 M												
08/21/85	5701											
1045	5701		245	20 C 7.9	--	--	--	0.0 0.0	T T	-- 0.0	-- T	P E
01N/07E-16R01 M												
08/21/85	5701											
1515	5701		360	17 C 8.0	--	--	--	0.0 0.0	T T	-- 0.0	-- T	P E
01N/07E-18L01 M												
08/21/85	5701											
1110	5701		275	18 C 7.9	--	--	--	0.0 0.0	T T	-- 0.07	-- T	P E
R-04 R-04.R 07N/12E-34R01 M MIDDLE SIERRA HU SUTTER CREEK HA												
02/05/85	7748											
5684	7748		220	7.2	--	--	--	0.2 0.25	T T	-- 0.0	-- T	P E
07/02/85	7748											
5684	7748				0.02	T	0.00	T	--	0.00	T	0.00

TABLE E-2 (CONTINUED)

MINOR ELEMENT ANALYSES OF GROUND WATER

DATE TIME	SAMP LAB	DEPTH	DISCH EC	TEMP °F	APSENIC	CONSTITUENTS IN MILLIGRAMS		PER LITER COPPER IRON	LEAD MANGANESE	MERCURY SELENIUM	SILVER ZINC	REMARKS
						BARIUM CADMIUM	CHROM (ALL) CHROM (HEX)					
			G-08A G-08A 25N/17E-29H01 M			NORTH LAMONTAN WA SUSANVILLE HU NEPLONG WA						
06/12/85 1050	5050 5050		215	58.0F 7.0	0.00	T	--	--	--	--	--	
			26N/16E-06001 M									
06/12/85 1310	5050 5050		450	60.0F 7.1	0.04	T	--	--	--	--	--	
			26N/17E-16801 M									
06/12/85 1400	5050 5050		745	64.0F 7.3	0.03		--	--	--	--	--	
			27N/16E-36004 M									
06/12/85 1220	5050 5050		1180	63.0F 7.1	0.01	T	--	--	--	--	--	
			29N/16E-30101 M									
06/11/85 0850	5050 5050		310	72.0F 8.2	0.00	T	--	--	--	--	--	
			G-08.B 28N/14E-17802 M			SUSAN RIVER WA						
06/11/85 1305	5050 5050		318	60 F 7.8	0.00	T	--	--	--	--	--	
			29N/12E-16M02 M									
06/10/85 1405	5050 5050		192	66.0F 8.2	0.03		--	--	--	--	--	
			29N/14E-17001 M									
06/10/85	5050			66.0F			--	--	--	--	--	
06/10/85 1525	5050 5050		1070	66 F 7.6	0.19	T	--	--	--	--	--	
			29N/14E-20R04 M									
06/10/85 1615	5050 5050		1450	60.0F 7.8	0.28	T	--	--	--	--	--	
			G-08.C G-08.C1 31N/10E-03M01 M			EAGLE ORAINAGE WA ANTELOPE MOUNTAIN HSA						
07/31/85 1340	5050 5050		142	50.0F 7.0	--		--	0.25	T	--	--	
			31N/10E-14F01 M									
07/31/85 1400	5050 5050		164	49.5F 7.3	--		--	0.56	T	--	--	
			32N/11E-06001 M									
07/31/85 1305	5050 5050		191	53.5F 8.9	--		--	0.06	T	--	--	

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TABLE E-3 MISCELLANEOUS ANALYSES OF GROUND WATER

Lab and Sampler Agency Codes

5701 - California Water Service Company Laboratory

Abbreviations and Constituents

TIME	- Pacific Standard Time on a 24-hour clock
L-pH	- Lab determination of acidity or alkalinity of water
MBAS	- Methylene blue active substance (a test for detergent surfactants) in milligrams per liter
T+L	- Tannin and lignin as tannic acid in milligrams per liter
CHLOR	- Field determination of residual chlorine in milligrams per liter
O+G	- Oil and grease in milligrams per liter
COLOR	- True color in color units
SET S	- Settleable solids in milliliters per liter (ML/L) and milligrams per liter (MG/L)
BOD	- Biochemical oxygen demand in milligrams per liter; B = 5 days
SUS S	- Suspended solids in milligrams per liter; 5 = at 105 degrees C
COD	- Chemical oxygen demand in milligrams per liter
V SUS S	- Volatile suspended solids in milligrams per liter
CYANIDE	- Cyanide in milligrams per liter
PHENOLS	- Phenols in milligrams per liter
TOC	- Total organic carbon in milligrams per liter
DOC	- Dissolved organic carbon in milligrams per liter
IODIDE	- Iodide in milligrams per liter
T ODOR	- Threshold odor number at 60 degrees C
BROMIDE	- Bromide in milligrams per liter
SULFITE	- Sulfite in milligrams per liter
T SULF	- Total sulfides in milligrams per liter
D SULF	- Dissolved sulfides in milligrams per liter
CC EXT	- Carbon chloroform extract
CA EXT	- Carbon alcohol extract

TABLE E-4

NUTRIENT ANALYSES OF GROUND WATER

Lab and Sampler Agency Code

Abbreviations

5050	-	California Department of Water Resources
5701	-	California Water Service Laboratory
TIME	-	Pacific Standard Time on a 24-hour clock
TEMP	-	Water temperature at time of sampling in degrees Fahrenheit (F) or Celsius (C)
F EC	-	Field determination of electrical conductance in microsiemens at 25°C
F PH	-	Field determination of acidity or alkalinity
TURB	-	Jackson Turbidity Units measured with a Hach Nephelometer, (A), if in the field, (F)
F-CO2	-	Field determination of carbon dioxide in milligrams per liter
P ALK	-	Field determination of alkalinity (phenol)
T ALK	-	Field determination of alkalinity (total)

(Nitrogen Series as N)

D N02+N03	-	Dissolved nitrite and nitrate
D N02	-	Dissolved nitrite
D N03	-	Dissolved nitrate
D ORG N	-	Dissolved organic nitrogen
T ORG N	-	Total organic nitrogen
D NH 3	-	Dissolved ammonia
T NH 3	-	Total ammonia
T (NH3+ORG N)	-	Total ammonia plus organic nitrogen

(Phosphorus Series as P)

DIS.A.H.P04	-	Dissolved acid hydrolyzable phosphate
D O-P04	-	Dissolved orthophosphate
T O-P04	-	Total orthophosphate
D TOT P	-	Dissolved total phosphorus
T TOT P	-	Total phosphorus
REM	-	Remarks: code letter Z means that the value of the constituent is greater than the field limit, in which case all 9's will appear.

TABLE E-4
NUTRIENT ANALYSES OF GROUND WATER

DATE TIME	SAMP LAB	G.M. O	TEMP DEPTH	F EC F PH	TURR F CN2	FIELD P ALK T ALK	O NO2 + N NO3	O NO2 O NO3	CONSTITUENTS IN MILLIGRAMS PER LITER				O 0-PH4 T 0-PH4	O 0-PH4 T TOT P		
									O DGC N	O NH3	T NH3	OIC				
A A-04 A-04.0 A-04.04 11M/08W-05801 M SACRAMENTO HR CACHE CREEK HU UPPER CACHE CREEK MA LAKEPORT MSA																
10/03/84	5050		16.0C	381			--	--	--	--	--	--	--	0.01	--	--
1600	5050			7.3				0.01	--	--	--	--	--	--	--	--
12/04/84	5050		15.0C	390			--	--	--	--	--	--	--	0.00	--	--
1230	5050			7.2				0.00	--	--	--	--	--	--	--	--
02/05/85	5050		15.5C	395			--	--	--	--	--	--	--	0.01	--	--
1430	5050			7.3				0.01	--	--	--	--	--	--	--	--
04/03/85	5050		15.5C	375			--	--	--	--	--	--	--	0.00	--	--
1040	5050		0	7.2				0.00	--	--	--	--	--	--	--	--
06/04/85	5050		16.0C	395			--	--	--	--	--	--	--	0.00	--	--
1430	5050		0	7.2				0.01	--	--	--	--	--	--	--	--
08/07/85	5050		16.0C	395			--	--	--	--	--	--	--	0.01	--	--
1130	5050		0	7.1				0.00	--	--	--	--	--	--	--	--
11M/08W-05C01 M																
10/03/84	5050		19.5C	341			--	--	--	--	--	--	--	0.01	--	--
1540	5050			7.4				0.01	--	--	--	--	--	--	--	--
12/04/84	5050		17.0C	340			--	--	--	--	--	--	--	0.00	--	--
1300	5050			7.3				0.00	--	--	--	--	--	--	--	--
02/05/85	5050		6.0C	357			--	--	--	--	--	--	--	0.00	--	--
1330	5050			7.2				0.00	--	--	--	--	--	--	--	--
04/03/85	5050		18.5C	355			--	--	--	--	--	--	--	0.00	--	--
0915	5050		0	7.4				0.01	--	--	--	--	--	--	--	--
08/04/85	5050		19.5C	345			--	--	--	--	--	--	--	0.00	--	--
1345	5050		0	7.2				0.01	--	--	--	--	--	--	--	--
08/07/85	5050		26.0C	340			--	--	--	--	--	--	--	0.01	--	--
1030	5050		0	7.2				0.05	--	--	--	--	--	--	--	--
11M/08W-05C01 M																
10/03/84	5050		18.0C	187			--	--	--	--	--	--	--	0.01	--	--
1450	5050			6.6				0.07	--	--	--	--	--	--	--	--
12/04/84	5050		11.0C	85			--	--	--	--	--	--	--	0.01	--	--
1340	5050			6.8				0.92	--	--	--	--	--	--	--	--
02/05/85	5050		4.0C	98			--	--	--	--	--	--	--	0.01	--	--
1400	5050			6.3				0.56	--	--	--	--	--	--	--	--
04/03/85	5050		10.5C	104			--	--	--	--	--	--	--	0.03	--	--
0900	5050		0	6.2				0.14	--	--	--	--	--	--	--	--
06/04/85	5050		15.5C	137			--	--	--	--	--	--	--	0.02	--	--
1400	5050		0	6.3				0.22	--	--	--	--	--	--	--	--
08/07/85	5050		20.5C	165			--	--	--	--	--	--	--	0.06	--	--
1110	5050		0	6.6				0.08	--	--	--	--	--	--	--	--
11M/08W-05K01 M																
10/03/84	5050		14.0C	232			--	--	--	--	--	--	--	0.00	--	--
1430	5050			6.8				0.01	--	--	--	--	--	--	--	--
12/04/84	5050		5.5C	70			--	--	--	--	--	--	--	0.01	--	--
1355	5050			6.0				0.01	--	--	--	--	--	--	--	--
02/05/85	5050		4.0C	185			--	--	--	--	--	--	--	0.01	--	--
1415	5050			6.4				0.03	--	--	--	--	--	--	--	--
04/03/85	5050		9.5C	81			--	--	--	--	--	--	--	0.02	--	--
0845	5050		0	6.0				0.01	--	--	--	--	--	--	--	--
06/04/85	5050		12.5C	275			--	--	--	--	--	--	--	0.02	--	--
1415	5050		0	6.7				0.02	--	--	--	--	--	--	--	--
11M/08W-06M01 M																
10/03/84	5050		14.0C	297			--	--	--	--	--	--	--	0.00	--	--
1515	5050			7.2				0.00	--	--	--	--	--	--	--	--
12/04/84	5050		13.5C	280			--	--	--	--	--	--	--	0.00	--	--
1315	5050			7.3				0.03	--	--	--	--	--	--	--	--
02/05/85	5050		13.5C	295			--	--	--	--	--	--	--	0.00	--	--
1315	5050			7.2				0.01	--	--	--	--	--	--	--	--
04/03/85	5050		13.5C	277			--	--	--	--	--	--	--	0.00	--	--
0945	5050		0	7.5				0.00	--	--	--	--	--	--	--	--
06/04/85	5050		13.5C	321			--	--	--	--	--	--	--	0.01	--	--
1330	5050		0	7.0				0.02	--	--	--	--	--	--	--	--
08/07/85	5050		14.5C	325			--	--	--	--	--	--	--	0.01	--	--
1100	5050		0	7.0				0.01	--	--	--	--	--	--	--	--
A-07 A-07.R A-07.R1 19M/03W-04J01 M COLUSA RASIN HU GLENN COLUSA MA COLUSA TROUGH MSA																
07/01/85	5701		20.0C				--	--	--	--	--	--	--	--	--	--
1535	5701							--	--	--	--	--	--	0.12	--	--

TABLE E-4 (CONTINUED)

NUTRIENT ANALYSES OF GROUND WATER

[illegible]

TABLE E-4 (CONTINUED)
NUTRIENT ANALYSES OF GROUND WATER

DATE TIME	SAMP LAW	G.W. 0	TEMP DEPTH	F EC F PH	TURB F CO2	FIELD P ALK T ALK	D NO2 + NO3	D NO2 NO3	CONSTITUENTS IN P PH N T ORG N	O NH3 T NH3	T NH3 + ORG N	NTS A.M.P.O4	O N-PO4 T N-PO4	O TOT P T TOT P
A A-13 A-13.8 22N/01E-27N01 M														
SACRAMENTO HR TENHANA HU RED ALUFF HA														
09/17/85	5050		65.0F	225		--	--	--	--	--	0.1	--	--	--
1130	5050			7.0										0.02
22N/01E-33N02 M														
09/17/85	5050		60.0F	220		--	--	--	--	--	0.0	--	--	--
1300	5050			7.1										0.03
27N/03W-03N01 M														
06/06/85	5050		72.0F	240		--	--	--	--	--	0.0	--	0.04	--
1345	5050			7.8										0.05
27N/03W-03P02 M														
06/05/85	5050		72.0F	340		--	--	--	--	--	0.0	--	0.03	--
1335	5050			7.6										0.06
27N/03W-03P03 M														
06/05/85	5050		73.0F	285		--	--	--	--	--	0.0	--	0.04	--
1340	5050			8.0										0.05
27N/03W-03P04 M														
07/01/85	5050		65.0F	303		--	--	--	--	--	0.0	--	0.01	--
1000	5050			7.9										0.05
27N/03W-09P01 M														
06/04/85	5050		68.0F	290		--	--	--	--	--	0.0	--	0.08	--
1100	5050			7.1										0.08
27N/03W-10A01 M														
06/04/85	5050		68.0F	340		--	--	--	--	--	0.1	--	0.04	--
1010	5050			7.3										0.08
27N/03W-10B02 M														
06/06/85	5050		72.0F	280		--	--	--	--	--	0.0	--	0.10	--
1105	5050			7.4										0.10
27N/03W-10C01 M														
06/06/85	5050			355		--	--	--	--	--	0.0	--	0.07	--
1420	5050			7.3										0.08
27N/03W-10G01 M														
06/06/85	5050		71.0F	420		--	--	--	--	--	0.0	--	0.10	--
1140	5050			7.6										0.10
27N/03W-10G02 M														
06/06/85	5050		72.0F	365		--	--	--	--	--	0.0	--	0.11	--
1205	5050			7.3										0.11
27N/03W-10G03 M														
07/01/85	5050		66.0F	600		--	--	--	--	--	0.1	--	0.05	--
0930	5050			7.0										0.09
27N/03W-10C01 M														
06/04/85	5050		64.0F	285		--	--	--	--	--	0.1	--	0.06	--
1030	5050			8.0										0.07
27N/03W-11L01 M														
07/19/85	5050		70.0F	450		--	--	--	--	--	0.0	--	0.04	--
0930	5050			7.2										0.13
27N/03W-11P01 M														
07/19/85	5050		70.0F	600		--	--	--	--	--	0.1	--	0.05	--
0910	5050			7.2										0.16
27N/03W-11P03 M														
07/19/85	5050		65.0F	600		--	--	--	--	--	0.5	--	0.06	--
0840	5050			7.1										0.22
27N/03W-14A01 M														
07/19/85	5050		67.0F	670		--	--	--	--	--	6.1	--	0.02	--
0805	5050			7.2										0.05
27N/03W-14G01 M														
07/19/85	5050		65.0F	540		--	--	--	--	--	6.1	--	0.01	--
0830	5050			7.4										0.05
27N/03W-14A01 M														
06/28/85	5050		69.0F	440		--	--	--	--	--	6.0	--	0.03	--
0930	5050			7.3										0.07
27N/03W-14A01 M														
07/19/85	5050		67.0F	500		--	--	--	--	--	6.0	--	0.01	--
0945	5050			7.2										0.06

NUTRIENT ANALYSES OF GROUND WATER

DATE TIME	SAMP LEG	G.W. FO	TWP DEPTH	F FCN	TURA FCO2	FIELD				CONSTITUENTS IN MILLIGRAMS PER LITER				D D-P04 T O-P04	D D-TOT P	
						P ALK T ALK	D NO2 + NO3	D NO2 NO3	D ORG N T ORG N	D NH3 T NH3	T NH3 + NH4 DPC N	D NH4 DPC N				
A A-13 A-13-R 27N/03W-14H02 M																
06/28/85	5050 5050		67.0F		470 7.1		--	--	--	--	0.0	--	0.02	--	0.04	
07/22/85	5050 0930		69.0F		500 7.0		--	--	--	--	0.1	--	0.00	--	0.05	
27N/03W-14H01 M																
06/04/85	5050 1310		61.0F		700 6.7		--	--	--	--	0.0	--	0.08	--	0.08	
27N/03W-15C01 M																
06/04/85	5050 0940		65.0F		575 6.9		--	--	--	--	0.0	--	0.03	--	0.03	
27N/03W-15C02 M																
06/04/85	5050 0950		74.0F		320 7.3		--	--	--	--	0.0	--	0.05	--	0.07	
27N/03W-15E01 M																
06/04/85	5050 0925		65.0F		640 7.0		--	--	--	--	0.0	--	0.03	--	0.04	
27N/03W-15K02 M																
06/06/85	5040 0905		66.0F		710 6.8		--	--	--	--	0.0	--	0.04	--	0.04	
27N/03W-15K03 M																
06/06/85	5050 1345		72.0F		615 7.1		--	--	--	--	0.0	--	0.06	--	0.06	
27N/03W-15M02 M																
06/05/85	5050 1515		70.0F		675 6.8		--	--	--	--	0.0	--	0.09	--	0.11	
27N/03W-15M03 M																
06/06/85	5040 1325		69.0F		650 7.0		--	--	--	--	0.1	--	0.04	--	0.04	
27N/03W-15N01 M																
06/05/85	5050 0909		68.0F		640 7.1		--	--	--	--	0.0	--	0.02	--	0.03	
27N/03W-15N02 M																
06/06/85	5050 0915		70.0F		645 6.9		--	--	--	--	0.0	--	0.04	--	0.04	
27N/03W-15P01 M																
06/06/85	5050 0850		71.0F		520 7.1		--	--	--	--	0.0	--	0.04	--	0.05	
27N/03W-16F01 M																
06/06/85	5050 0840		68.0F		350 7.5		--	--	--	--	0.0	--	0.03	--	0.06	
27N/03W-16N02 M																
06/28/85	5050 5050		64.0F		295 6.9		--	--	--	--	0.0	--	0.03	--	0.06	
27N/03W-20A01 M																
06/04/85	5050 0730		64.0F		275 7.5		--	--	--	--	0.0	--	0.07	--	0.08	
27N/03W-20F01 M																
09/13/85	5050 1355		66.0F		235 7.8		--	--	--	--	0.0	--	--	--	0.03	
27N/03W-20K01 M																
09/14/85	5050 1335		68.0F		305 6.8		--	--	--	--	0.0	--	--	--	0.06	
27N/03W-20O04 M																
09/13/85	5050 1330		69.0F		320 7.0		--	--	--	--	0.0	--	--	--	0.04	
27N/03W-21C01 M																
06/04/85	5050 0800		66.0F		295 7.3		--	--	--	--	0.0	--	0.03	--	0.05	
27N/03W-22A01 M																
06/22/85	5050 1610		63.0F		645 7.1		--	--	--	--	0.0	--	0.03	--	0.05	

TABLE E-4 (CONTINUED)
NUTRIENT ANALYSES OF GROUND WATER

DATE TIME	SAMP LAP	G.W. O	TEMP DEPTH	F EC F PH	TURB F CO2	FIELD P ALK T ALK	N NO2 + N NO3	N NO2 N NO3	CONSTITUENTS IN O ORG N T ORG P	O NH3 T NH3	WILLIGRAMS PER LITER O NH3 + T NH3 + O NH3 + T NH3 +	N O-PH4 T O-PH4	N TOT P T TOT P	
4 4-13 4-13.8 274/03W-22802 M														
07/15/85 0950	5050 5050		62.0F 7.1	580 7.1			-- --	-- --	-- --	-- --	0.1 --	0.02 --	-- 0.0*	
274/03W-22803 M														
06/21/85 1115	5050 5050		64.0F 7.3	555 7.3			-- --	-- --	-- --	-- --	0.2 --	0.05 --	-- 0.06	
274/03W-22801 M														
06/21/85 1025	5050 5050		64.0F 7.0	515 7.0			-- --	-- --	-- --	-- --	0.2 --	0.03 --	-- 0.04	
274/03W-23001 M														
06/04/85 1300	5050 5050		63.0F 7.6	585 7.6			-- --	-- --	-- --	-- --	0.1 --	0.07 --	-- 0.07	
274/03W-25001 M														
06/21/85 1320	5050 5050		67.0F 7.1	363 7.1			-- --	-- --	-- --	-- --	0.2 --	0.03 --	-- 0.05	
274/03W-27001 M														
06/21/85 1050	5050 5050		61.0F 6.8	600 6.8			-- --	-- --	-- --	-- --	0.2 --	0.04 --	-- 0.04	
274/03W-27001 M														
06/26/85 1920	5050 5050		62.0F 7.1	440 7.1			-- --	-- --	-- --	-- --	0.0 --	0.06 --	-- 0.10	
274/03W-27801 M														
07/15/85 0920	5050 5050		62.0F 7.1	560 7.1			-- --	-- --	-- --	-- --	0.0 --	0.02 --	-- 0.07	
274/03W-28802 M														
06/28/85 5050	5050 5050		64.0F 7.1	340 7.1			-- --	-- --	-- --	-- --	0.1 --	0.02 --	-- 0.04	
274/03W-28803 M														
06/21/85 1300	5050 5050		73.0F 7.1	235 7.1			-- --	-- --	-- --	-- --	0.1 --	0.01 --	-- 0.02	

NUTRIENT ANALYSES OF GROUND WATER

DATE TIME	SAMP LAP	G.W. O	TEMP DEPTH	F EC F PH	TURB F CO2	FIELD P ALK T ALK	N NO2 + N NO3	N NO2 N NO3	CONSTITUENTS IN O ORG N T ORG P	O NH3 T NH3	WILLIGRAMS PER LITER O NH3 + T NH3 + O NH3 + T NH3 + O NH3 + T NH3 + O NH3 + T NH3 +	N O-PH4 T O-PH4	N TOT P T TOT P	REM
6 6-08 6-09.0 6-09.01 314/10E-03001 M														
07/31/85	5050		50.0F	142			0.26	--	--	--		--	--	--
1340	5050			7.0							0.0	--	0.03	
314/10E-14001 M														
07/31/85	5050		57.0F	182			0.10	--	--	--		--	--	--
1410	5050			7.0							0.0	--	0.03	
314/10E-14001 M														
07/31/85	5050		60.5F	164			0.08	--	--	--		--	--	--
1400	5050			7.3							0.0	--	0.02	
314/11E-08001 M														
07/31/85	5050		57.5F	266			0.19	--	--	--		--	--	--
1445	5050			6.1							0.0	--	0.03	
324/11E-06001 M														
07/31/85	5050		53.5F	191			0.25	--	--	0.00		0.04	--	--
1305	5050			6.0							0.0	--	0.04	
334/11E-10001 M														
07/31/85	5050		64.0F	171			0.36	--	--	--		--	--	--
1140	5050			7.4							0.0	--	0.01	

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ADDITIONAL INFORMATION

Inquiries regarding specific stations or local data should be directed to the Department of Water Resources offices shown below:

<u>County</u>	<u>District Office</u>
Butte, Colusa, Del Norte, Glenn, Humboldt, Lake, Lassen, Modoc, Plumas, Shasta, Siskiyou, Tehama, and Trinity	Northern District P. O. Box 607 2440 Main Street Red Bluff, CA 96080 (916) 527-6530
Alameda, Alpine, Amador, Calaveras, Contra Costa, El Dorado, Marin, Mendocino, Mono (North), Napa, Nevada, Placer, Sacramento, San Francisco, San Joaquin, San Mateo, Santa Clara, Sierra, Solano, Sonoma, Sutter, Tuolumne, Yolo, and Yuba	Central District 3251 "S" Street Sacramento, CA 95816-7017 (916) 445-6831
Fresno, Kern (valley), Kings, Madera, Mariposa, Merced, Monterey, San Benito, Santa Cruz, Stanislaus, and Tulare	San Joaquin District 3374 East Shields Avenue Fresno, CA 93726-6990 (209) 445-5443
Imperial, Inyo, Kern (desert), Los Angeles, Orange, Riverside, Mono (South), San Bernardino, San Diego, San Luis Obispo, Santa Barbara, and Ventura	Southern District P. O. Box 6598 849 South Broadway, Suite 500 Los Angeles, CA 90055-1598 (213) 620-4107

Inquiries regarding statewide data should be directed to the Division of Planning:

Department of Water Resources
Division of Planning
Statewide Data Coordinator
P. O. Box 942836
Sacramento, CA 94236-0001
(916) 445-7314

State of California—Resources Agency
Department of Water Resources
P.O. Box 942836
Sacramento CA 94236-0001



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